Champion of Europe? Elite's soccer sim reviewed

Sid Meier's game design secrets



2 2 2 DISK £2.95

with 5t Disk

Return of the Leather Goddesses

Philips's CD-I

Fitting game cards and joysticks

3D Construction Kit II



Win an Amstrad 4386SX!



Making music on the PC: a starter guide

Missing disk? Ask the newsagent where it's gone!

The COMPLETE guide to PC entertainment

### ROLE PLAY FOR PC

# The Legend of Darkmoon continues

The famous role model for all AD&D® role-playing fantasies, the dreaded Temple Darkmoon is back.

More sinister, terrifying and haunting than ever. It will slowly weave into your sub-conscious and refuse to let go.



Through a clearing in the shadowy forest, a trio of towers rise menacingly into the night sky. You are on the threshold of terror, one wrong move and it's curtains. Finito.

The exciting sequel to Eye of the Beholder is here. Bigger. Better. And so realistic you'll keep looking over your shoulder.

The improved "point 'n' click" interface lets you come face-to-face with the most gruesome characters and complex

clues.

In fact, you'll only want to stop playing this State-of-the-Art adventure game for one reason. To pinch yourself and prove you're not in the middle of a nightmare.

Available on: PC (EGA, VGA/ MCGA (256 Colour). 640k RAM and Hard disk required. Supports AdLib<sup>TM</sup>, Soundblaster<sup>TM</sup> and compatibles). Amiga version coming soon.

ADVANCED DUNGEONS & DRAGONS, AD&D and the TSR logo are trademarks owned by TSR, Inc., Lake Geneva, WI, USA and used under license from Strategic Simulations, Inc.,Sunnyvale, CA, USA. © 1991, 1992 TSR, Inc. © 1991, 1992 Strategic Simulations, Inc. All rights reserved.



#### LAUGHS FOR PC

## Side-splitting pirate adventure

Just when you thought it was le end for LeChuck, he's back.

The legend states that "when LeChuck wants you dead, you're dead"- grim news for his old adversary, young Guybrush Threepwood.



But fear not. Big Whoop holds the key to great power. All is not lost.

In this stunning graphic sequel, young Guybrush's adventures will have you rolling in hysterics. Beware, you'll laugh so hard, milk will flow from your nose.

Behind every pirate is a really gnarly chair and in front of Guybrush is a saga so savage it'll put hairs on your chest.

With 256 colours (PC version), variable difficulty modes, interactive reggae music and "point 'n' click" interface, you'll be transported to Monkey island in a flash.



So, brace yourself, the fun starts here. Who knows when it will stop?

Available on: Amiga (32 colours) and PC (VGA/MCGA. Requires 640k Ram AT or compatible. Supports AdLib<sup>TM</sup>, Roland<sup>TM</sup>, Soundblaster<sup>TM</sup> and SoundMaster<sup>TM</sup>II sound cards. Hard drive required.

TM & © 1991 LucasArts Entertainment Company. Lucasfilm Games is a trademark of Lucasfilm Ltd. Monkey Island 2 - Le Chuck's Revenge is a trademark of LucasArts Entertainment Company. All rights reserved.



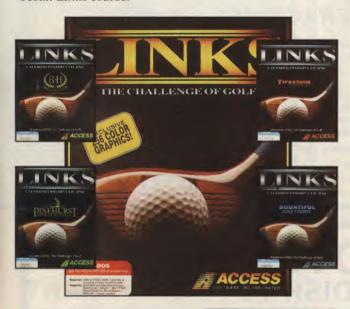
A serious PC experience

#### SPORT FOR PC

### Play a round All year round

It's raining cats and dogs outside, but it's a beautiful crisp Spring day on the Torrey Pines Golf Course.

You approach the tee, driver in hand. Gazing down the fairway, you notice every feature of this classic Pacific Ocean Links course.



The Challenge of Golf takes you to a new level of realism. You can almost smell the grass, feel the silky putting surfaces and take in the fresh sea air. At times, you'll want to replace the divots, until you remember it's only a game.



But WOW, what a game!

And now, the 256 colour 3D graphics can be enjoyed on another six championship courses: Bountiful Municipal, Firestone CC South, Bayhill, Pinehurst, Barton Creek and Hyatt Dorado.

Hyatt I

So, put on your sun visor and practice your swing. You're next on the tee.

Available on:
PC (VGA or MCGA,
640k and Hard disk
required. Supports:
AdLib<sup>TM</sup>, Soundblaster<sup>TM</sup>.
MSound<sup>TM</sup> sound cards)

Amiga version coming soon.

©Access Software, Inc. 1991 All rights reserved.



#### FLIGHT FOR PC

# A Simulation to take your breath away

Hard on the tail of Jetfighter I, the mind-blowing combat sequel is airborne.

Jetfighter II: Advanced Tactical Fighter shoots Top Gun down in flames.



Strap yourself in as the most advanced and powerful 3D technology takes to the skies, with you as pilot whatever the time of day or night.

Revolutionary animation lets you see parachutes opening in the wind, radar chaff blooming behind your jet and feel the landing gear deploy and retract.



Dogfights take on a different dimension with real time artificial intelligence. Includes F/A-18 Hornet, F-16 Falcon and F-14 Tomcat.

Features instant flying mode for beginners, interactive hypertext help system and tunable joystick system for maximum response.

So, answer the call of the wild. Now, even the sky's no limit.

Available on:
PC (CGA/Tandy (4 Colour),
EGA (16 colour) VGA (256 Colour). 640k RAM
required. Supports AdLib™ and Soundblaster™
sound cards. Hard drive recommended.

© 1991 Velocity. All rights reserved.







# Contents



#### THE MUSIC MACHINE

The idea of making music on the PC is one that fascinates many people, who also find the apparent complexity and iargon involved rather daunting. With the idea of cutting through a lot of the acronymic baggage, we asked Rob

Beattie to put together a three-part series to making music on the PC, from the point of view of the beginner. In part one this month, he explains what sort of equipment you'll need to get started; in the next two articles, we'll get down to producing some real sounds. To paraphrase Rob's article, the PC won't turn you into Vince Clarke, but if you're tone deaf, it will help.

This month's First Steps feature looks at a area where there is much confusion: PC joysticks and joystick cards. If you're still stuck with keyboard control only for your games, take a look, and see how easy the upgrade can be.

All this DYI on your system and tedious 20-disk installation every time you want to play a new game seems primitive when you look at Philips' CD-I system. Compact Disc Interactive is a stand alone system using a CD-ROM unit plus your TV set and a remote controller. Although it's not PC-compatible, multimedia expert Tim Carrigan reckons that if compact disc storage is the future for PC titles. CD-I will be in there somewhere, as you can read on page 26.

We've got two updated pieces in this issue. The Classic Game Guide has been revised to take account of changing prices, and games which have 'acquired' classic status since it was first put together, and Peter Worlock reports on the new 'debugged' Falcon 3.0 on page 73.

Finally, I'm afraid that for reasons of space, we haven't been able to include our Shareware section this month. Normal service will be resumed next issue.

Christina Erskine

### **FEATURES**

#### 24 SID MEIER TALKS

PC Review's Steve Cooke found the normally publicity shy Sid Meier in a forthcoming mood at the Computer Game Developers' conference in California, and asked him about life, the universe and Civilization.

#### **26 COMPACT DISC** INTERACTIVE

Philips' CD-I system offers "interactive television" with games and reference works on compact disc. Is this a rival to the burgeoning CD-ROM market on the PC? Tim Carrigan reports.

#### **30 JOYSTICKS AND GAME** CARDS

Adding a game card and joystick to your PC can greatly enhance your game-playing. Paul Presley explains how to make the upgrade and picks his way through the minefield of joysticks available to make some recommendations

# **COVER DISK**

Fancy your chances as an Olympic athlete? Then now's your chance to prove your mettle, in the Diving event from Empire's **International Sports** Challenge. Alternatively, you can play the heroine for a change in the superb platform game Jill of the lungle. In a more serious vein we have two excellent utilities; Easy Menu is the ideal way to start your programs, and CompuShow will display just about any type of graphics file you care to think of. Dig in, and enjoy!







PC Review Issue Ten August 1992 EMAP Images, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU Tel: 071-972 6700

Fax: 071-972 6710 E-Mail: pcreview@cix.compulink.co.uk Subscriptions and back issues (0858) 410510

**EDITORIAL Editor** Christina Erskine **Deputy editor** Laurence Scotford Art editor Gareth Jones **Production editor** Paula Shields

Picture researcher Rob Carter

Staff writer Paul Presley

Contributors Rob Beattie, Ciarán Brennan, Tim Carrigan, Steve Cooke, Mike James, Robin Matthews, Paul Rigby, Peter Worlock Cover photo Ed Park

#### **ADVERTISING**

Group advertisement manager Nigel Taylor Advertising sales executive Melanie Costin Advertising production Tina Gynn **Publishing director Mike Frey** 



#### **94 COMPETITION**

Your chance to win an Amstrad 4386SX Family Pack worth £1,000: the complete works, and all you have to do is answer a few easy questions. We've also got some superb educational software to give away to runners-up.



### **COVER STORY**

# 20 TURN YOUR PC INTO A MUSIC MACHINE

If you've ever fancied the idea of composing, editing, sequencing, or sampling music on your PC, but wondered what on earth all the jargon means, this beginners' series is for you.

In this, the first part, Rob Beattle takes you through the equipment you need to get started, shows you how to set up a suitable system, and



explains what MIDI is, and why it's important to the potential music maker.

### **REGULARS**

#### 7 News

The new Ambra range of PCs – IBM clones from IBM itself, and the Amstrad 4386SX Family Pack appraised.

#### 14 Coming soon

Incentive's respected 3D Construction Set is being upgraded and enhanced – we report on its progress so far. Plus role-playing in the shape of Legacy and Champions.

# Two dis Person and Tail Add (1975) To Tail Add (197

#### 35 Reviews

Lure of the Temptress is finally here – find out if it lives up to pre-release hype. For some lighter relief, the fiendish Leather Goddesses are back in a second Steve Meretsky adventure.

#### 76 Tips

We've got the first instalment of a comprehensive guide to Origin's superb Ultima Underworlds, and more on Star Trek and Heimdall.

#### 99 Buyers' Guides



140 Letters
All the views fit to print.

144 Q&A

Mike James answers your PC queries.

146 Quit

More tales from the PC's crypt.

Marketing manager Marc Swallow Marketing executives Sarah Ewing, Sarah Hillard Managing director Terry Pratt

#### IN EUROPE

European production manager Paul Boughton France Jean-Michel Blottière Germany Heinrich Lenhardt Italy Riccardo Albini Spaln Oscar Esteban

Page output and colour origination by Track Origination, 15, Heston Industrial Mall, Church Road, Heston, TW5 0LD and PrePress,

124-132 Clerkenwell Road, London EC1R 5DL. Advertising typesetting by Xerox Ventura Publisher. Printed by Capricorn, 17-21 Hovefields Avenue, Burnt Mill Industrial Estate, Basildon, Essex. Distributed by BBC Frontline. © EMAP Images 1992. No part of this magazine may be reproduced, stored in a retrieval system or transmitted in any form (either electronic or mechanical) without the express written consent of the publisher.

PC Review does its best to ensure that information carried in the magazine is accurate, but cannot be held responsible for any errors which may occur.



YOU OVERCAME THE GODS?

### THESE HANDSOME SPECIMENS WILL

### **BRING YOU DOWN TO EARTH!**

In Populous, you challenged the gods. Now man is your adversary in the form of three unscrupulous and violent tribal leaders.

Be as mean as them and match force with force, or be more cunning, play Mr Nice Guy and win over the local villagers.

By doing so you not only swell your numbers, but also keep your larders stocked, which is essential in ensuring the loyalty of your army.

OWERPONG

With the stunning graphics you've come to

expect from Bullfrog.

Powermonger is a living world of mountains, forests and rivers, sun, snows and

rain, where inventiveness and strategic skill can triumph over mere brute force.



Powermonger will test you to the limit, but don't just take our word for it, look at the ratings...

Ace...Ace rated 973, CU Amiga...Super Star 95%, C & VG...C & VG Hit 95%,

The One...95%, Zero Hero...93%, Generation 4...97%, Tilt...95%.

Available on IBM/PC, Amiga and Atari ST.



BULLFROG PRODUCTIONS LTD

ELECTRONIC ART

Electronic Arts, Langley Business Centre, 11-49 Station Roa Langley, Berks SL3 8YN, Tel: 0753 549442, Fax: 0753 54667

# News

# review

MAKING THE HEADLINES

# IBM WORKS OUT TO COMPETE WITH ITSELF

Vou'll probably have noticed the fetching TV adverts where the work-out king is exhorted to "take his mind for a run" by now - but apart from the obvious attractions of the ad, is there anything else notable about Ambra, the latest IBM-clone manufacturer to offer 'low-cost' PCs to the market?

Well, just one thing really – Ambra PCs are the first IBM-compatible clones to be supplied by IBM itself! Although, like the majority of PCs, Ambra machines will be manufactured by third parties all over the Far East, they will be distributed by a new company, Individual Computer Products International (ICPI) – a wholly-owned subsidiary of IBM.



ICPI's general manager Alan Willsher says, "At the moment, many of them dismiss the lower reaches of the clone market as too risk. We want to change all this by creating the first low-cost brand with real credibility." All of which does tend to pose the question of where all those Amstrads have gone.

ICPI's opening range consists of two desktop models and two notebooks, with 486-based additions promised for later this year. The desktops go by the rather fetching handles of Sprinta and Hurdla and are both based on 386sx technology running at 25Mhz. Both machines sport 4Mb of RAM, while the Sprinta has room for up to 80Mb of hard disk, and the Hurdla can accommodate 160Mb. The major difference between the two is the Hurdla's 16K of cache memory.

ICPI can be contacted on (0800) 386 386), while those who actually wish to see the machinery first can check it out in branches of Rymans and Wildings.

All systems will come with Dos v5.0 and Microsoft Windows pre-installed, while those sold through dealers will also feature Microsoft Works and Lemmings. Prices will vary from dealer to dealer, but those going to Ambra direct can expect to pay between £885 (for the basic Sprinta model with VGA monitor and 40Mb hard drive) and £1,215 (which will get you a Hurdla with 160Mb drive and SVGA graphics), exclusive of Vat.

### **KUMA LAUNCHES HINT GUIDE**

he ever-popular series of 'game guides' written by New Zealand games freak Dean Corish has now reached its third edition, with what's claimed to be the biggest hint book ever.

Published in the UK by Kuma, Corish's Computer Games Guide 3rd Edition boasts more than 12,000 hints, cheats, tips and pokes to give relief to the bewildered in excess of 1,250 games (including 200 adventures).

Although the book doesn't concentrate solely on IBM-compatible games, it does feature adventure game solutions particularly heavily, including those from Infocom, Lucasfilm, Magnetic Scrolls, Sierra On-Line and Mindscape. Other featured publishers include Psygnosis, US Gold, Ocean, and Renegade.

In particular, PC
players can look forward
to help and advice on
Lemmings, Cruise for a



Corpse, Another World, Immortal, Wonderland, Elvira, Railroad Tycoon, Flames of Freedom and Powermonger. Corish's Computer Games Guide 3rd Edition is available now from most software outlets, priced at £14.95.

#### IDM lassach ab a

Hardware

7 IBM launch shock PC clone

7 Sound Blaster hits the high street

8 Mindscape and
Virgin Games unveil
CD-ROM titles
12 Paul Presley
assesses Amstrad's
4386SX family pack

#### Games

7 Kuma release a complete game cheaters' guide

8 Core Design take on Lucasfilm at their own game

8 Grandmaster Chess checks in

8 Lucasfilm reveals new Star Wars inspired X-Wing 'sim'

8 Virgin Games sign up EotB2'.zs developers Westwood Associates

#### **Utilities**

9 Encyclopaedias on CD-ROM

#### Miscellaneous

9 MicroProse on the move

#### DIXONS MAKES SOUND DECISION

ound card technology has made its first major leap into the high street, as Dixons has agreed to stock Creative Labs' Sound Blaster Pro in 15 of its stores, with a view to taking it nationwide eventually.

Dave Askew, director of Creative Labs' UK distributor, Westpoint Creative points out that this is the first sound card which the high street giant has ever stocked, continuing: "Hopefully they will be impressed with the trial and it could lead to us getting more of our products stocked – including the Video Blaster and Multimedia Upgrade Kit."

The 15 demonstration models (two of which will

be in Dixons' new London superstores) will run a continuous loop of speech, music and sound effects running on 386-based hardware.

• At the time of going to press, Creative Labs was believed to be in discussion with the Ad Lib administrators with a view to buying the rights to taking over production of the Ad Lib and Ad Lib Gold cards (see last issue for further details). The situation is believed to be complicated by the involvement of the Canadian Government, but hopes are high that all Ad Lib sound cards could be back in production in the near future. More news as we get it.

# CORE CURSES PC FIRST

Ithough it's previously been known as an Amiga-specialist publisher, Core Design (Derby's finest, previously known for Corporation and Heimdall among others) will finally make the quantum leap to developing on PC first with its forthcoming role player/animated adventure, Curse Of Enchantia. Currently on course for a September release, Curse Of Enchantia is, in the immortal words of Core's Richard Barclay, "A huge icon-driven epic of the Sierra On-Line/Lucasfilm ilk."

Work on the project is in the hands of two Core newcomers: Ian Sabine is taking care of the coding, while graphic artist Rolf Mohr is currently airbrushing the characters and backdrops, which will be digitised and incorporated into the game.

"We've carved a reputation for ourselves as a company which pushes the machinery we work with to its limits," says Barclay. "So we're really looking forward to seeing how we can exploit the possibilities created by the extra memory and 256-colour graphics capabilities which the PC is now capable of offering." Further details are available from Core on (0332) 297797.

# CAPSTONE'S CHESS CONFIDENCE

S software publisher Capstone (distributed in Europe by Accolade, on (081) 877 0880) is so confident about the abilities of its forthcoming chess simulator, Grandmaster Chess, that it's prepared to put its money where its mouth is with an alarming "beat Chessmaster 3000 and Sargon V or your money back" guarantee.

In addition to offering this world-beating assurance, Grandmaster Chess also promises multiple 2D and 3D views, an array of different boards and pieces (including traditional, fantasy and mediaeval styles), five skill levels, 'help' and 'analysis' modes and a library of more than 100 classic starting positions.

The game itself is played via a series of pull-down menus (a mouse is therefore recommended), while moves can be instantly reviewed by use of a system of VCR-type controls. There will also be full printer support, allowing games to be printed out in either text or graphic formats.

"We designed this program to beat the competition," said Leigh M. Rothschild, president of Intracorp Inc., Capstone's parent company. "And

what better way to support our claim than to guarantee it? We will refund the purchase price to anyone who can beat Grandmaster Chess using Chessmaster 3000, Sargon V or any earlier version of those programs."

Hardware-wise, the program will require at least 640K of RAM and a hard drive. Super VGA, VGA and EGA are supported, as are the Roland, Sound Blaster, Ad Lib, Covox and Disney Sound Source standards.



### VIRGIN GOES WEST

irgin Games has continued its expansion into the United States with the acquisition of Westwood Associates, the critically-acclaimed PC developer responsible for a long list of classics including Eye Of The Beholder and Dragon Strike.

Commenting on the new deal, Virgin's US boss Martin Alper said: "The considerable growth of Virgin Games' North American and European factions in all areas of consumer software is largely due to the attention we pay to the quality of the development process - and Westwood are developers of the highest calibre. This important acquisition will ensure that our forward progress as a broadbased publisher will continue smoothly and that the synergy that exists between Virgin Games and Westwood will allow Westwood to venture further into CD-ROM and interactive media development with maximum creative control.

Which, presumably, means that he's pretty happy with things.

Despite the 'under new management' sign hanging over the door, Westwood will continue on as before, retaining its Las Vegas base and continuing to work on its latest project, Fables & Fiends: The Legend of Kyrandia.

There are no details as yet of a UK release. Light may be shed on the subject by calling Virgin on (081) 960 2255.

# LUCAS ANNOUNCES PROJECT X

nce more drawing heavily on its cinematic roots, LucasArts (formerly Lucasfilm Games) has raided the Star Wars hardware files to bring you X-Wing, a spacebased flight and fight simulator which pitches you straight into the battle against Darth Vader and his Imperial Forces.

Following on from Lucasfilm's previous successful flight simulators, X-Wing puts the budding pilot through his or her paces in the Rebel Academy before dropping them into active duty defending the Alliance. Designed by Lawrence Holland and Edward Kilham, whose previous credits include SWOTL and Their Finest Hour, X-Wing will feature LucasArts' innovative (and, indeed, interactive) iMuse music system as well as the usual graphic and sound card support.

X-Wing will be ready for launch "in time for Christmas 1992" according to US Gold, LucasArts' UK distributor. Call (021) 625 3366 for further details

# MICROPROSE OPENS IN THE NORTH

aving spent aeons confined to its sedate Gloucestershire village HO in Tetbury, MicroProse is opening an office in Manchester and has acquired Leeds-based programming team Vektor Grafix.

Described as a 'development satellite', the Manchester office will house a team of 15 people, including artists, programmers and musicians. Commenting on his firm's new arm, publishing director Paul Hibbard said: "This office will give MicroProse the greatest development capacity in Europe. What's more, it will allow us to work with creative talent in the north of England."

Presumably as part of this policy of scouring the north for talent, MicroProse has also announced the takeover of the previously independent developer Vektor Grafix, a 3D specialist which made its name with such notables as Bomber (a multi-aircraft combat simulator for Activision) and Shuttle (Virgin Games' space shuttle simulator).

The pairing seems like an ideal match, as both firms have a strong track record in the 3D/flight simulator fields – indeed, Vektor Grafix is currently applying the finishing touches to MicroProse's forthcoming Flying Fortress simulation.

# SEE THE WORLD THE US WAY

Although multimedia is constantly touted as the next great white of hope of PC gaming, in its current form the CD is best equipped for the storage and playback of large reference titles such as digital encyclopaedias.

To add to the huge library of such titles already available, Technomatic – on (081) 205 9558 – is releasing a range of CDs from US specialist, the Bureau of Electronic Publishing.

The first of these is CIA World Tour - a compendium of 'non-classified information' produced by America's favourite intelligence agency and used by all departments of the US Government. Fascinating facts throw up by this politically incorrect title include ... South Korea, with a literacy rate of over 90 per cent, is one of the fastest growing and most dynamic of the industrialising countries and is able to repay early some of its \$40 billion in foreign debt. Or ... Iraq had 2,193,448 males 15-49 fit for military service in 1989, 212,318 reach military age (18) annually.

Moving quickly along, Monarch Notes is a digital version of the series of study guides produced by American publisher Simon & Schuster. Monarch Notes throws some light on the scribblings of everyone from Wordsworth and Pope to Karl Marx and Aldous Huxley.

Similarly, US History On CD-ROM is a collection of 107 printed works, again stored on a single CD. Although this collection concentrates on military history, it also covers such diverse subjects as Criminal Justice - New Technologies And The Constitution and Skylab, Our First Space Station.

Like the CIA World Tour, US History complements its words with over 1,000 photographs and a series of maps and tables.

The military connection rears its ugly head one last time for the final disc in the series, as Countries Of The World is a direct descendant of the US Army Country Handbook series. Offering detailed information on over 190 countries and territories, compiled from government and embassy sources, the disc includes more than 6,000 pictorial images (maps. flags and tables).

All four discs are compatible with the usual CD-ROM standard, while the former pair also come in MPC-compatible versions which support Windows and its relevant multimedia extensions.

Prices for these titles start at £58 for Monarch Notes and the CIA World Tour (£62 for the MPC version), and move through Countries Of The World at £169 right up to US History at £243.

### **FOUR FOR ROM**

he expanding, library of PC games on CD-ROM has grown further with the announcement of four rereleases – three from Mindscape and one from Virgin Games.

Virgin's offering is a CD pressing of the Graftgold strategy epic, Realms (rated 7 in Issue 8).

Like Realms, Mindscape's
Three Sixty compilation offers
nothing that hasn't already been
available in standard floppy
format. Instead, this single-CD
pack features three military
simulations from US war game

specialist 360: Aces of the Great War, Das Boot (a multi-game Uboat simulator) and Megafortress, the recently-released high altitude bomber simulator.

Commenting on criticisms that the new package doesn't take

full advantage of the extra possibilities offered by CD-ROM's increased capacity, Mindscape's James Morris offered: "There are two ways of approaching CD-ROM. You can give it the full works with enhanced sound and graphics etc, or you can go for value for money. These games have not been greatly enhanced, but they're available at a very good price.

Realms is out now, priced at £34.99, while the Three Sixty Compilation comes in at £59.99.



# ATAC



SECRET ENEMY
SECRET WAR
SECRET FORCE

It's no secret. ATAC is striking back!

Deploy the Advanced Tactical Air Command A strategic flight simulation from MicroProse



ATAC

Released lirst on IBM PC Compatibles, followed by Commodore Amiga and Alari ST

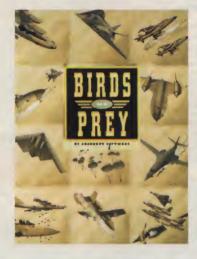
MicroProse Ltd. Unit 1 Hampton Road Industrial Estate Tetbury Glos. GLS BLD, UK Tet 0066 504 326

## **FORTY BIRDS AND**

# **UNLIMITED PREY**

If there's a modern military aircraft not included in Birds of Prey, it's probably not worth flying.

So whether you choose to be a Western or a Soviet pilot,



IBM/PC £39.99 AMIGA £34.99

flying a fighter or a bomber you can do it all in one game.

Each of the different mission types, ranging from Aerial Reconnaissance and Interception to Bombing Raids and Troop Drops is open-ended. The possibilities are unlimited.

Choose from a vast array of military might including the F-117A Stealth Fighter, the Tornado F MK. 3, the BAC Harrier Gr Mk.3 and the Mig-29 Fulcrum, 40 planes in total.

Whichever you opt for, you'll be confronted by a frighteningly accurate simulation of state-of-the-art warfare.

And whichever mission you choose, you'll find yourself flying into a real-world environment of continuous action taking place on land and sea.

Before you take off however, you must plot the positions of your enemies and conjure up strategies to destroy them. Then you arm your aircraft from a bewildering array of hi-tech weaponry.

Once in the air, complex mathematics calculate the maximum limits your choice of aircraft could realistically attain, given it's weight, payload and aerodynamics.

Four years in the making, Argonaut Software have devised what Jez San describes as "the most realistic and dynamic world ever created".

Take off.







# review News

# AMSTRAD'S 4386SX GAMES PC: THE PROS AND CONS

av back in Issue 1, we featured an up and coming gamesdedicated PC from Amstrad, the 5286. Containing a 14" Colour VGA monitor, a 40Mb hard drive. a 286 processor, an Ad Lib compatible sound board, speakers, a joystick and mouse and three respectable games, it was felt that while in general it was a fairly decent pack, there wasn't enough room for exapansion and with the way games were heading, it wouldn't be able to keep up to the everincreasing demands put upon it.

To combat this, Amstrad has released the 4386 Games PC at ú999.99 (plus Vat) containing most of the same features, but with a 386 (20Mhz) processor, an 80Mb hard drive and 4Mb of expanded memory to help it out. Unfortunately, while this particular package sounds much better on paper, it does have several flaws to hold it back.

One is that the size of the monitor has been reduced from the 14" supplied with the 5286 to a measly 10", hardly the stuff epic space battles and heroic damsel rescuing is made of. To be fair, you can buy a pack with a 14" monitor for a higher price, but it would have been more preferable from the end-user's point of view to just stick with the one, larger size.

Speaking of size, while the smaller footprint case can be extremely handy from a storage point of view, it does mean that it cuts out any chance of installing,



say, a Roland soundboard (which in my mind would be one of the first upgrades to make) or any other full-size add-on board.

Another gripe is with the hard drive. 80Mb sounds like a lot, but some bright spark in the planning stages has decided to split it into three partitions of around 20-30Mb each. It is possible to use DOS 5 (which has to be purchased seperately) to join the three together, but when you consider that the whole purpose of these games packs is to sell them to families unfamiliar with PCs, wanting to get a foot in the door. To

suddenly tell them that they are going to have to study DOS manuals and re-format hard drives is a little hard to take.

Something that really needed to be included with the pack but wasn't was a real beginners' guide to setting up and getting used to the PC. The actual manuals provided are the usual doorstop affairs, chronicling all the ins and outs of Windows and DOS and I really can't see little Johnny being able to pick it up and get going with ease (actually I can, it's the fathers I'm worried about)

Are there any good points to make? Well, as a games PC it does what it sets out to well and it did manage to run Wing Commander 2 (something I use to test out the capacities of any machine and not one of the games included in the pack) without too much trouble. I did have to alter the Config.sys and Autoexec.bat files to do so, mainly to get rid of the memoryhungry Counterpoint icon system.

The bundled games are identical to those found in the original 5286 Pack; they were well worth acquiring then, and still make an excellent introduction to the potential of PC gaming, even if it's a touch unenterprising to repeat the bundle.

Links from Access has rapidly become the standard for golf games, even managing to surpass the legendary PGA Tour Golf. The thing about Links is that it always needed a pretty powerful machine to run on and unfortunately, the 4386 isn't quite powerful enough. The game works OK, but it still needs something faster to be able to fully appreciate it.

Prince of Persia is, of course, a classic in every sense. Platform games don't get much better than this and this really is a good way of showing off what a PC can do well. Finally comes F15 Strike Eagle II. This probably wasn't the best choice of flight simulators to include as the release of F117A Nighthawk and Falcon 3.0 really put it to shame. It's not a bad game, though, and it works fine here.

What Amstrad appears to have done is to design a PC that will support most of the standard games currently on the market, but once again it hasn't paid much thought to where they are going to go from here. The fact that the games supplied are exactly the same as the ones supplied with the machine released last year just hammers that point home. There are better games-dedicated PCs on the market and I really would recommend shopping around before you make your decision.

#### The Amstrad 4386SX Games Pack

20MHz 80386SX processor

4Mb RAM

80Mb hard disk

1.44Mb 3.5" disk drive

256K VGA card

10" VGA colour monitor

Ad Lib compatible soundboard

Amstrad speakers

Amstrad analogue joystick

Serial mouse

Prince of Persia, F15 Strike Eagle II, Links

Counterpoint

Windows 3.0

DOS 5.0

**PAUL PRESLEY** 



## OF THE TOLKIEN TRILOGY





# Coming soon...



Radical update of powerful games creation utility

syears ago, Incentive's spectacular 3D engine stunned the games playing world when it was used to create the strategy/exploration game Driller. Since then, Freescape has been at the heart of Darkside, Total Eclipse and Castle Master. The ageing system had its swan song in 3D Construction Kit, a utility that enabled you not only to create your own 3D worlds, but to animate them, or even make a complete Freescape game.

The big problem with the original kit was that, by the time anyone got around to creating games with it, Freescape was so old hat that nobody felt able to get particularly excited about any of them. Having

said that, the kit still sells and there are still people creating games with it. However, Incentive has not been idly resting on its laurels the company has listened long and hard to users of the kit, particularly those in the dedicated user group, and is now hard at work creating the sequel, 3D Construction Kit 2.

At first sight, nothing much seems to have changed bar the slicker looking menus and control panels, but spending some time exploring Kit 2 soon reveals a plethora of new and improved features. Not just your average washing detergent new and improved, we're talking real power here.

Firstly, you'll find you have a



couple of new elements to work with. Making your creations look a little less angular is easily achieved with the use of the sphere; an object you very rarely find in 3D games. The most fundamental departure, however, is in the appearance of an element that Incentive has termed a flexicube.

The flexicube, when first created, is just like any other box, only in its case you can edit any of the vertices to pull the cube into an infinite variety of weird and wonderful shapes. The availability of the flexicube is going to mean that future Freescape games look a lot less like Legoland and more like as though set in real places.

Manipulation of objects does not

stop there. Any object can now be drawn as a wireframe image, so you can create the sort of effect seen in Atari's Battlezone and Novagen's Mercenary. Transparent objects, it seems, are all the rage because you can now create glass effects by setting a variable fade factor. Using this, they can be made to appear anything from vaguely translucent to completely invisible (which is useful for creating force fields and the like). It is also possible to make objects change their opacity dynamically so they can fade in and out.

Editing the shapes you make is now much easier. The vertex you are currently editing is highlighted, and grouped objects can be listed

# 3D Construction



Objects can be given a fade factor to make them translucent.



The fade effect in action. The house gradually becomes more translucent as you watch it.









These are just four examples of the sort of complex shapes that can be created using the new elements available.

either as a group or individually. Furthermore, the information for all the objects is available all the time, and the setting up of an object is now achieved on a single dialogue box, as is the editing of instruments. Once you have the editor set up for the way you like to work, you can save the editor preferences to disk so that you don't have to spend time doing it on each occasion that you use the kit. One of the most useful additions in respect of editing is the option to name elements in the game, so you could directly refer to lounge and chair, for instance, rather than area03 and group 15.

# Kit 2

One of the most painful aspects of using the first kit was colouring objects and areas, but this has been simplified in the sequel; there is now a multi-level undo for colour changes and you can paint colours directly on the screen. A big criticism of the original kit was that if you wanted to create an effect like lights being switched on in a room, you had to create two versions of the room, one with lights on and the other with lights off. Now you can actually change the palette and on-screen colours through the Freescape Control Language.

Those of you who really did get to grips with the programming aspect of the first 3D Construction Kit will know how limiting the language could be on occasions, and will be pleased to know that FCL2 is a vast improvement. There are three times the number of commands previously available. You can now set up string variables, arrays, and long or short numeric variables. An equivalent of

the Basic Goto command has been implemented, which won't please lovers of structured code, although they will be heartened by the new use of subroutines.

Just when you thought Incentive couldn't possibly have added anything else, it hits you with Sprite Control! Yes, you can actually add animated bitmapped objects, not to mention multiple and animated borders. It doesn't end there either; FCL is capable of directly drawing simple shapes.

There will be some people, of course, that want to use 3D Construction Kit 2 simply to design their own 3D objects and worlds and explore them without having to get involved with the intricacies of FCL. For these people, Incentive has implemented a facility to set up movement between areas without programming. They will also find useful the recorder which records a sequence of events and then replays them at a variable speed; very handy for budding architects who want to create their own walk-throughs.

Sound has improved, too. There will be a much larger range of preset sounds and there will be a sound and sample bank editor of some sort, although Incentive hasn't yet decided what form this will take. Roland support in addition to Ad Lib/Sound Blaster is also a possibility.

3D Construction Kit 2, it seems, is going to offer more of everything: more objects, more object interaction, and if you want your own games to offer more, you can make them bigger by chaining datafiles! Compatibility with Kit 1 is achieved via an automatic data conversion utility, and Incentive plans to supply a simple data converter for porting 3D creations from one machine type to another.

Finally, Domark promises an improved manual with several detailed tutorials and a better video to go with the package.

Free Lance Space Stud
needed to explore planet
needed to explore planet
of gender-jumpling females!
Must be well-versed in
Must be well-versed in
pick-up lines and pottery.
Call Colonel Stone at
Call Colonel Stone at
Androgena-8878!

Rex Nebular is on his way!



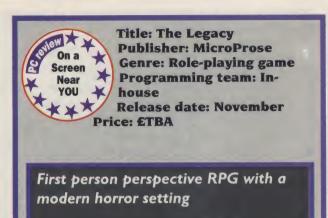
Seriously Fun Software

Rex Nebular is coming soon for IBM PC Compatibles.

MicroProse Ltd. Unit 1, Hampton Road Industrial Estate,
Tetbury Glos GL8 8LD. Tel: 0666 504 326



# Coming soon..





# The Legacy

hat do you get if you cross Eye of the Beholder, Wonderland and Guest? Flight sim specialist MicroProse is hoping that the answer lies in its forthcoming horror-based role-playing game, The Legacy (recently renamed: its original working title was Haunted). Set in the archetypical old mansion, you find yourself face to face with ghost, ghoulies, zombies, mummies, vampires, wolfmen and a myriad of other assorted B-movie rejects and nightmarish creations.

The plot sees you inheriting an old mansion that holds a dark secret. An entity from a macabre dimension possesses the house and wants nothing more than to drive you out or turn you insane. It's quite possible for this to happen as, in keeping with all good horror RPGs, your character has a sanity rating as well as the usual energy and health bars.

Although the majority of the



game takes place in the house's corridors, there are plenty of large multi-screen rooms to explore.

Although the only time you see it scrolling smoothly is in the intro sequence, the fact that each of the

larger areas contains authentic furniture and decorations adds to the feeling of being in a real world

#### A bevy of beauties

The creatures of The Legacy are a wild and crazy bunch, ranging from the traditional ghosts and zombies to the more outlandish types, such as the axe wielding woman or winged demons. Here's a quick rogue's gallery:









as opposed to a fantasy dungeon.

The graphics are the true selling point of the game as not only are they some of the most detailed animations ever seen in a role-playing game, they've all been designed to create a dark and sinister atmosphere, set to scare the pants off the player.

MicroProse hasn't gone overboard on the gore scenes, using them only at moments of extreme tension in order to help the atmosphere and carry the story.

One idea that's been well implemented and only seen in a very small handful of games before is the auto-mapping facility. As you progress through the house and its many hidden corridors, your progress is marked on an ever increasing map. As it's drawn it also scrolls keeping the player's position in the centre and allowing you to see as much of the surrounding area as possible.

Another almost-innovative idea is the use of a Windows-style interface, last seen in a games enviroment in the Magnetic Scrolls adventure Wonderland (this is probably something to do with the fact that the game is being developed with Magnetic Scrolls). The main screen, the inventory, the automatic mapping facility, the compass and the options menu all appear in their own individual windows and can be re-sized and moved around the screen to give the player a set-up he or she is comfortable with. An interesting feature of the windows is that remote 'cameras' can be positioned throughout the house, each showing a similar view to that of the main one, allowing you to see when things happen in particular places of importance.

Naturally comparisons are going to be made between The Legacy and Virgin's spooky epic Guest, but MicroProse's offering has one main advantage – it's not a CD-ROM product. This means that it might be just the thing to keep all the non-CD owning PC users happy until they can make the upgrade and get scared by multimedia ghosts and goblins.



The remote camera allows you to see what's happening in other areas of the house. So while you're being attacked by the mad woman with the axe, you're also keeping an eye on the ghost in the middle view.



Although this shot is taken from the intro sequence, the actual in-game interiors for the rooms connecting the corridors are identical. The only difference being that it doesn't smooth-scroll.

Undersexed Women On Distant Planet
seek interstellar stud to inject excitement
into their population. Must have starship,
into their population. Must have equipment
a lust for adventure and the right equipment.
Terra Androgena and leave message.
Two-minute men need not reply.

When Rex Nebular arrives, they'll get all the excitement they can handle



Seriously Fun Software

Rex Nebular is coming soon for IBM PC Compatibles. MicroProse Ltd. Unit 1, Hampton Road Industrial Estate, Tetbury Glos GL8 8LD. Tel: 0666 504 326

# Coming soon...



Title: Champions
Publisher: Konami
Genre: Role playing game
Programming team: Hero
Software

Release date: TBA

Price: TBA

A long overdue RPG for would-be superheroes



# Champions

s long as software houses have recognised and attempted to supply the obvious demand for superhero games, they have unfortunately failed to meet the expectations of avid Batman/Spiderman aficionados. The only appetising software on the market is aimed at arcade-game fans. But what about the gamesplayers who really want to become a superhero as opposed to just controlling a sprite on a screen? To live out their fantasies through the medium of their friendly PC? The RPG is an ideal setting for fulfilling this wish, being the most suitable genre around to get you in where the real action is.

To date, the most suitable RPG has been the well received tabletop role-play system from Steve Peterson, George MacDonald and Rob Bell called Champions: The Super Role-Playing Game. This game, although recommended, takes quite a while to create a character and then the prospective player has to find a games master to provide a world for that character to live in. Hence the cry for a computerised version of the Champions tabletop system. Hero Software was set up for that very purpose and has sought the assistance of Konami to market the final game called - amazingly enough — Champions.

In a nutshell, Konami says that Champions allows you to "create a hero, interact with people, solve mysteries and battle superpowered opponents within scenarios in the finest comic book tradition."

The creation of the hero is a feature of the game. You can select a number of abilities and talents from a pot full of points. However, you can also obtain extra points to bestow upon your hero, with the caveat that he will also have to bear 'disadvantages' as a compensation — an excellent idea to counter the 'all-powerful' hero. These disadvantages can vary from medical to personality disorders. In addition, you are able to access a

paint program (which offers a palette of 32 colours) to adorn your superhero/heroine with a costume that will be truly bad for the eyes. Other 'design' features for your character will include the face-mask, weapons, special effects for using their powers and even a catchy catch-phrase which your character can exclaim as he/she dives into combat with the baddies.

Interaction between your hero and other NPCs triggers a conversation window that places the portrait of you and the chap you are talking to at the top of the screen. Scattered below are attitude buttons. You select an attitude you wish to adopt and the NPC reacts to it. Responses are shown via speech balloons.

The storyline itself is reported to be very open-ended in a soapopera style. That is, the stories are, apparently, linked together in a true comic 'issue' format. To further the longevity of this new system Hero Software is planning to release extra story modules in conjunction with Marvel and DC (and written by certain staff members).

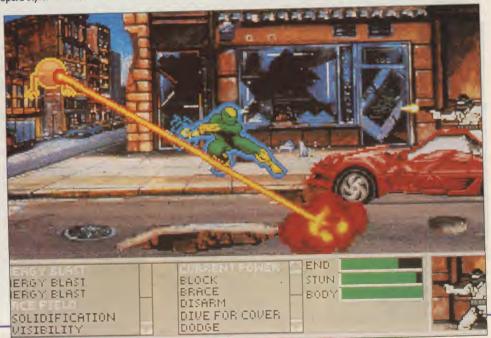
Combat is rather different from your usual RPG. Konami says that combat "... offers more strategy than any other RPG. You can use over a dozen combat manoeuvres for precise tactical control of your hero. You can set your defence and offence, adjust the level of every power, make your moves and choose your targets."

Manoeuvres include blocking, brace, disarm, dive for cover, dodge and so on. However, the most potentially exciting aspect of the combat system is the graphic presentation. You will be shown

every sizzling energy blast and combat manoeuvre in true comic style. Hero Software has employed the talents of comic artists such as Frank Cirocco and Chuck Austen is an attempt to turn the animated combat sequences into true cartoon/comic events.

Technically speaking, you will need 640K of RAM to play Champions and all popular soundboards will be supported.

At the moment Champions is expected for release later on in the year. No definite decision has been made about distribution in the UK. However, there is a good chance that this could be the very first comic-related game to actually hit the heights, so to speak. Let's hope Konami make the right decision and brings Champions to our shelves



# Darba and S<sub>TM</sub>

### The Journey of a Lifetime



#### In Medieval Germany, reality is more horrifying than fantasy

Black Forest, you and your companions crouch before the robber-knight's tower. Hans the alchemist, places a mysterious potion by the heavy oak door. Ebhard the monk implores Saint Dunstan to bless your weapons and armour. Gretchen and you unsheathe your broadswords read to jump into the fray.

With a thundering crash, the door explodes into fragments. You and your companions charge inside swinging swords and maces from side to side.

Gerhard the Red Wolf, the infamous robber knight waits for you surrounded by his evil henchmen. They are ready with weapons drawn. Suddenly, Hans tosses a choking potion into their faces, they reel from the effect and in that precious moment you race into them. The lonely tower, set deep within the vast Black Forest, echoes with the sound of clashing steel.

Parklands. The first realistic fantasy role-playing game. By leading a band of adventurers across the sinister lands of 15th

century Germany you'll encounter the real Middle Ages steeped in fear, myth and legend. Travel hundreds of miles, visit over ninety cities and watch savage battles unfold before your eyes!

Your quest, or series of quests, may take you through raucous city streets, down deep dank mine shafts or into witches' covens in search of fame and fortune. So prepare yourself for the wonders and mysteries of Darklands!

**MICRO PROSE** 

Darklands is available for IBM PC compatibles.

Look for the box in all good software stores or telephone now for your free MicroProse Catalogue. 0666 504 326.

### **COVER STORY**

You can use your PC to create music to rival the charttoppers, and it's no longer a prohibitively expensive option. Rob Beattie introduces the first of a three part series on making music on your PC.

Them



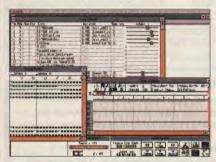
# usic machine

ny lout – it seems – can make music. The airwaves are full of it, the clubs throb to disposable masterpieces created on Friday night, danced to on Saturday and happily dumper-bound the following afternoon. Technology means that speed (the behavioural state rather than the substance) is king, and the new music is sampled, created, recorded on disk and whacked out in a matter of hours.

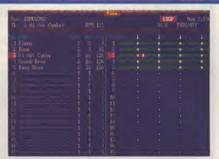
It's so fast that it doesn't matter what's in or out, and it's thankfully so outside the conventional music business that the record companies still haven't really got a handle on how to exploit it. But one thing is certain, the people who are doing it. rarely do it on PCs. That's because, traditionally, the Atari ST has dominated the UK music market by virtue of its price, and the fact that it comes with all the hardware required to connect to an electronic keyboard (though in the US, the Mac is more popular). The PC has previously been too expensive and therefore attracted few of the developments necessary to turn it into a machine capable of running an electronic music set-up.

Two things have changed this: the price of PCs has fallen like a stone, and the arrival of Microsoft Windows has allowed software authors to produce the kind of visual programs that are best suited to creating, editing and recording music.

The aim of this, the first of a three part series, is to explain how almost anyone – and I mean almost anyone – can use an IBM-compatible PC to help write, record, and print out music. On the way we'll cover the basics of the Musical Instrument Digital Interface (MIDI) and how it applies to PCs, examine the hardware you need, look at the software you can get for recording music and printing it out, look at



The Trax sequencer with all three windows open – Track List, Song Editor and Step Editor. Note the tape controls at the bottom left and the Conductor slider bar which can alter the tempo of a recording.

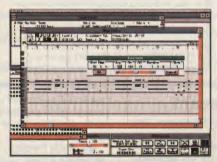


SP Junior is the sequencer that comes with Sound Blaster Pro. While there's a lot to it, mouse support is poor, and the program is awkward.

some low-cost keyboards and other boxes which will actually generate the sounds you'll be recording, and finally spend a little time talking about the cheap multitrack tape recorders that will allow you to combine your electronic music with live instruments like guitars and vocals.

This month, we'll concentrate on getting the necessary introductory stuff out of the way, but I'll also be looking briefly at a typical starter system. For those easily confused by technical terms (like me) there's also a short MIDI/electronic instruments primer.

No two ways about it – MIDI can be a bit of a nightmare. And anyone who tells you otherwise is pulling your plonker. The reason it's a nightmare is that it's essentially a communications interface – like a local area network for personal computers and electronic keyboards, drum machines and sound modules. The idea is that keyboards (from now on I'll use keyboards to mean any musical device that can produce sounds, like a drum machine or a synth module) from different manufacturers can exchange musical information with each other without worrying about formats, proprietary interfaces and so on.



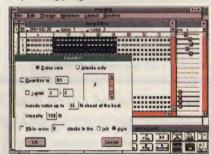
The Step Editor: on the left is the piano keyboard, and the horizontal black lines are the actual notes played. These can be 'picked up' using the mouse and moved, or you can edit the characteristics of a particular note as we're doing here.

#### Why do it?

If you're performing live on stage, then it's useful to access as many different sounds (and kinds of sounds) as possible - more for example, than can be held on a single keyboard. Trouble is, if none of the instruments can 'talk' to each other, you have to have one of each, you have to be able to move between them, and each one has to have a playable keyboard (and you have to possess deep, deep pockets). MIDI does away with all that. Using a single keyboard, it's possible to control any number of modules (ie, synthesisers without keyboards) from a single keyboard. You can access them separately, or have them play in unison to get those really fat, bowel-threatening sounds. Note, though, that in reality, the most modules you'll want to control is about five because after that, they'll be exchanging so much MIDI information that they're likely to get clogged up - like too many people speaking at once on a telephone.

Additionally, because MIDI doesn't care what kind of device you're using (so long as it has proper MIDI sockets) you can control sound modules with instruments other than a keyboard. Guitarists can use a MIDI pickup, and there are numerous electronic pads for drummers, and controllers for people who play wind instruments (some like the sadly discontinued Casio Digital Horn can still be picked at music shops for less than £100). Thus, a very ordinary strum, or an innocuous toot on an 'E' major can become a large and frightening orchestra hit with a few fuzz guitars and a couple of banjos thrown in to really confuse the audience.

For our purposes though, the MIDI fun really starts when you hook a couple of instruments up to a PC which is running a sequencing program.



In the Song Editor we've marked a series of tracks (the little rectangles) that we want to edit. In this case, we're going to quantise them to make sure that all the tracks are in perfect time and the performance another flawless one.





#### **COVER STORY**

#### The music machine

In this scenario, you use the PC and sequencer like the world's cleverest tape recorder, and although there are a number of these available running under DOS and Windows, they behave in essentially the same way.

You set the software to record and a little metronome starts up (either using the PC's own squeaker, or you can have one of your attached instruments provide the metronome and play it out over your hifi speakers). As you play the instrument, the sequencer can record not only the notes you play, but other information like how hard you hit the note, and how long it lasted. Once you've finished playing a passage, stop the sequencer and store what you've done on disk for safe-keeping. Now you can go on to record the next part of the song.

Let's say you've recorded a piano sound and you want to add drums. You 'rewind' the sequencer to the beginning, choose a different track, and start to record again. Only this time, as you play the drums (either by tapping the pads on the drum machine itself, or hitting keys on a keyboard controlling the drum machine through MIDI) you'll also hear the piano you recorded earlier playing along with you. (Playing a drum machine from a keyboard through MIDI is a bit difficult to get your head round at first, but it sort of makes sense. You 'map' the drum sounds to different notes on the keyboard so when you hit a 'C' you get the bass drum, a 'D' gives you a snare, and so on. In this way you can actually set up four or five different drum 'kits' up the keyboard - one per octave - and it's actually a lot easier to hit a key than one of those little drum pads.)

Save both recordings, and you can then go on and add a third instrument, then a fourth, then a fifth, and so on. If you make a mistake, you can either re-do the whole track or just 'drop in' to correct the duff notes (sequencers can be set to automatically start and stop recording very accurately, so you can concentrate on playing the correction without worrying that you'll accidentally overwrite good notes at the end). If you want to do a solo, but you're a bit useless, fine - just slow the speed of the sequencer right down, play the solo at a snail's pace, then speed it back up to normal when you want to play it back, and no-one need ever know, heh heh. If you put in a wretched drum

#### A typical system

Our ideal music machine will also double as a 'real' PC (handling more mundane things like word processing) as well as being able to play games. It should also be cheap.

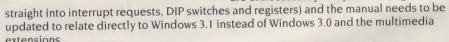
For this series, I decided to go slightly upmarket from my recommended minimum £900 system and use a 25MHz 386SX from Twinhead with a street price of around £1,200. It's one of a new breed of realistically priced systems with a good specification – 105MB hard disk drive, super VGA, 5MB of memory – and has more than enough poke to sit at the heart of a MIDI music set-up. It also has four free AT expansion slots, though disappointingly, no mouse.

Despite the fact that there are some astonishingly cheap 286s out there, I wouldn't consider them for two reasons. First, the 386SX is so much faster and better at using

memory, and second, you'll need one to run Windows properly.

Super VGA is a real bonus for music applications, since it's always useful to see more on the screen, and the 800 x 600 resolution offered by the Twinhead's Trident VGA controller gives a crisp picture, and the monitor's nice and contrasty. Unless you're really strapped for cash, there's little point in not buying a system with super VGA, since it's so much more practical.

For the MIDI hardware end, I used a Sound Blaster Pro card which comes with its own MIDI kit. Basically, the circuitry for the MIDI interface is already on Sound Blaster Pro, and this just adds the appropriate MIDI IN and MIDI OUT connectors. Once installed, the card worked well, but the instructions for setting the whole thing up are unnecessarily complicated (it goes



The whole lot comes bundled with Sequencer Plus Junior, a DOS-based program from Voyetra, packed with features (some of them quite advanced) and on the face of it, good value. At least it would be if it wasn't so awful to use.

The real problem is that DOS isn't a great environment for writing music programs, because the best ones use visual metaphors for editing and recording. SP Junior tries to

performance, and then use the sequencer to 'pull' every late or early beat exactly back into time. In fact you can produce something so inch perfect that some sequencers have a 'humanise' option which introduces tiny imperfections and slips in the beat so that it sounds more like a 'real' performance.

Fine, so what do these MIDI connections look like and does it matter which one you buy? So far as instruments go, simply look for three sockets on the back of whatever you're buying labelled MIDI IN, MIDI OUT, and MIDI THRU and you can't go wrong. The labels mean the instrument can send

and receive MIDI data and also pass MIDI data through to another, third instrument. To make the connections, the MIDI OUT from the PC goes to the MIDI IN on the keyboard. and the MIDI IN on the PC goes to the MIDI OUT on the keyboard. (We'll deal with some typical set-ups next month along with MIDI THRU.)

At the PC end, you'll need an expansion card with MIDI ports on it like the one you get with Westpoint Creative's Sound Blaster Pro or Zone Distribution's Intro Plus. The obvious advantage of using Sound Blaster is the wide range of games that support the card's built-in stereo FM

#### Yes, but what does it all mean?

Synths, modules and sequencers have a lingo all their own. This will get you started. More next month.

- MULTI-TIMBRAL capable of playing back more than one sound at a time. A typical multi-timbral keyboard will be able to play eight different sounds, plus drums at the same time.
- POLYPHONIC able to play more than one note at a time –
  early synthesizers were monophonic, and could only play a single
  note at a time.
- POLYPHONY usually associated with a number, ie, 24-note polyphony. It refers to the total number of notes that can be played at any one time. For example, if you've got a multi-timbral

synth and you try and get all eight sounds to play the same six note chord at exactly the same time, on an instrument with 24-note polyphony, you're going to run out of notes and some of them simply won't sound.

- PUNCH IN/OUT lets you correct the wrong notes in a recording without having to re-do the whole part. The sequencer starts recording at a specified point and then stops automatically at another. Thus you can simply change a 'D' to a 'D sus4' without having to replay the whole chorus.
- QUANTISE devilish method by which a sequencer takes out
  of time playing and makes it perfect. Very useful for tying bass
  and drum lines together, and just great for us non-drummers.



mimic these and includes many of the features associated with graphics-based MIDI sequencers (piano roll and other visual editing features) but it's really awkward to use. The second drawback is that SP Junior's mouse support is so non-standard – to access menus you hold down both mouse buttons, there are areas of the screen that the mouse cursor can't even move into, and despite using its own funny graphics mode, the cursor appears not as an arrow, but as a rectangle.

For software then, I used the cheapest Windows sequencer I could find, Passport Designs' £69.00 Trax, which is capable of recording up to 64 tracks and distributed by PC Sources

If you check out the screen shots that go with this article, you'll see that it feels like a much more expensive program. The controls for playing, rewinding, fast forwarding, recording and so on, are set out like those on a conventional tape recorder and can be controlled directly from the keyboard or with the mouse. Here you can usefully elect to have the 'tape recorder' automatically return to the beginning each time you press stop, and set the kind of metronome or click you want to hear to keep you in time when you're recording. Next to it is the Conductor which lets you adjust the tempo of your recordings. Obviously you click on and drag the slider to adjust the speed of playback or recording, but there's also an option to increase the speed over a specified number of bars so that the song starts slow and then gradually speeds up.

The Track Sheet lets you define the name of the instrument you're recording as well as the MIDI channel it plays back on (we'll discuss channels next issue); you can also 'loop' sounds here so they play a phrase, and then automatically go back to the beginning and play it again without missing a beat – very useful for drums and rehearsing; there are slider controls for adjusting individual volumes; and you can mute individual tracks so they don't play back, or solo one so that it plays alone.

You make major editing changes in the Song Editor which lets you move groups of notes around rather like paragraphs in a word processor. You can also change the MIDI information which relates to an entire track (perhaps to make it louder or softer, or transpose it to a different key) or to insert measures across all the tracks (to introduce two bars of silence before that final chorus-from-hell).

The Step Editor lets you edit individual notes as if they were words in a document. To the left of the screen shot you can see what looks like a piano keyboard. It is. In the middle of the screen are long black lines, which are the actual notes being played – the longer the line, the longer the note is held. Trax allows you to move or copy individual notes by simply picking them up with the mouse pointer, and dropping them down somewhere else. It's not as clever as some of the more sophisticated (and expensive) sequencers like Steinberg's Cubase, but it's sufficient for basic editing, though the lack of an undo in step edit mode is unfortunate, as is the absence of an overall Help system.

Although what I've described is a starter system – certainly in terms of software – it'll do a lot of damage, and the combination of the Sound Blaster card and Trax will allow you to make some sophisticated recordings.

#### The bit for those who know nothing.

- 1. If you want to buy a single keyboard and hear it play more than one sound at a time, it must be multi-timbral.
- 2. Buying a MIDI interface for the PC isn't enough you have to have the software to make it do anything.
- 3. In order to make and play back sounds you need something to create them in the first place usually a synthesizer connected to a stereo system, or headphones.
- 4. In the same way as a painting program won't turn you into Andrew Wyeth, a MIDI system won't turn you into Vince Clarke though if you are tone deaf, and have no sense of rhythm. It will help.
- 5. Synth demos are supposed to sound great. Make sure you listen to the simple sounds, piano, bass, strings, that you'll want to use all the time. And listen to them without reverb, chorus or any other snazzy effects.
- 6. Haggle for music gear. Always.

synthesiser. On top of that, you'll need some software in order to record your music, print it out, edit it, or whatever. In other words, if you're starting from scratch, your shopping list looks something like this:

■ a 386SX PC with enough poke to run Windows, ie, 2Mb of memory, an 80Mb hard disk, and colour Super VGA. This should knock you back around £900. (Why Windows? Because it's a much better envi-

ronment for music software, and because I think that DOS sequencers are horrible. DOS is not the proper environment for doing graphical things – look at the screen shot of SP Junior, and you'll see what I mean.)

■ a MIDI interface. Almost any will do, though Sound Blaster has obvious advantages because of its support in the games world. Price for the board, MIDI kit and SP Junior sequencer is £233.83. Zone

#### Contacts

Apple on (081) 569 1199
Atari on (0753) 533344
Casio on (081) 450 9131
Evenlode Soundworks (distributes
Cubase) (0993) 898484
Korg (081) 427 3397
PC Services on (081) 658 7251
Roland (0252) 816 181
Twinhead on (0256) 811366
Westpoint Creative on (0743)
248590
Yamaha (0908) 366700
Zone Distribution (081) 766 6564

Distribution sells a card on its own for as little as £69.

- a sequencing program. Something like Trax for Windows is only £69.00.
- a multitimbral keyboard. No rights or wrongs really. Pick one with MIDI sockets, and then see if you like the sounds. Beware however, some of the more expensive synths have got these fantastic king-hell sounds which are actually lots of sounds, layered together. Make sure you actually hear the 'raw' sounds because then you'll have a clearer idea of what you're getting. Most will incorporate drums as well. Prices go from about £199 upwards.
- two good MIDI cables, headphones, or jack leads to connect to your stereo. Buy the best you can afford. Sennheiser make great, cheapish headphones, and they're available from music stores and good hifi shops.

If you're going to be recording instrumental music, that's all you need to begin with, because you can use the sequencing software to balance the different instruments, and then either play it through the stereo directly from the computer, or record it on to a standard cassette. SAX or SFX probably give the best results, and you shouldn't use anything over a 60 minute tape because the longer ones tend to stretch after a while.

If you want to record vocals or perhaps guitar, things get a bit more complicated and expensive, and you need either a mixer to take the input from the keyboard/computer as well as from a guitar or microphone, and so on; or a multi-track tape recorder which will allow you to record a number of different sounds on different tracks and includes a little mixer.

#### **Next month**

The MIDI spec in more detail and what you can do with it, recording and sequencing software, and low-cost keyboards using an example PC set-up with a touch more poke about it.

#### SPECIAL

Sid Meier already has his place in PC gaming history booked and reserved, as the designer of F-19 Stealth Fighter, Railroad Tycoon and Civilization, among others. Steve Cooke met him at the renowned Computer Game Developers' Conference in California and talked to him about his craft.



t Sen he Computer Game Developers' Confer-

ad T

zation

Strike

ke Fagle

ealth Fight

Fighter Rai

road Tyco

ence got off to a modest start in 1987 when 20 people debated the fate of the art at Chris 'Balance of Power' Crawford's house outside San Jose. It has grown steadily

> each year, and this year's gargantuan binge at the Westin Hotel in Santa Clara attracted over 600 designers, programmers and producers.

What ensued was games, games, games, over 60 hard-core sessions on everything from the art of FM synthesis to the applications of TV scriptwriting techniques to game structure. Or the Montessori Method as a model for game design, or an overview of compression technology; or self publishing.

In the thick of all this at the Westin Hotel was Sid Meier, who is responsible or Red Storm Rising, F-15 Strike Eagle, -19 Stealth Fighter, Silent Service, ilroad Tycoon, and, of course, ilization, in the MicroProse canon. We have a big problem as game gners," began Sid. "The problem is that don't know how large the potential market

our products is. We can basically do one of 10 things - write games for the people we know or the people we don't know, for people who are already playing games or for people who aren't. I tend towards designing for people who are already playing. In fact, I design games for myself."

Sid compares himself with Brian Moriarty, who designed Loom, a game avowedly crafted with the games novice in mind. But Sid's not an evangelist, he's preaching to a converted audience of equals.

"I played a lot of board games when I was younger," he explains, "and then I got interested in designing them. But as soon as the computer came along I realised here was an opportunity to interact as opposed to just sitting back and going along with what other people had done."

### FIRST GAME

is first game was designed for a bet — or so H is first game was designed to.

the popular, though possibly apocryphal, story goes. Sid and Wild Bill were visiting a video arcade back in the beginning of the 1980s, when, emerging from a dogfighting flight simulator, Bill bet Sid he couldn't write a more exciting flight 'n' fight game himself. Sid called his bluff and promptly went home to write

Hellcat Ace — the program which launched MicroProse Software. One gathers that it did take him somewhat longer than a week, though.

His credentials for writing the first game include a degree in Computer Science from the University of Michigan, and experience in playing games on and programming the vintage Atari 800.

Since Hellcat Ace, Sid Meier's games have sold over two million copies worldwide.









# - a very Civilized games designer

Now, however, Sid isn't particularly interested in wooing new audiences by moving over to consoles or other machines. "I feel very comfortable with the PC right now." he says.

"Five years ago, however, it was very different — there were four or five different platforms you had to develop for. Now I really appreciate that there's only one. And

it's developing: we're constantly able to upgrade our products and give the player higher stimuli — better pictures, better sound."

Better sound? On the PC? "OK, sound is a limitation. However, there are now at least four good soundboards on the market and although we support them we don't make it essential for the player to have one. You can always present the same message graphically. On the PC, we tend to use the sound mostly for effects. It can, however, be very useful. Take Red Storm Rising, for example, where you listen out for another submarine using the sonar."

"Choosing

what to do next

isn't easy.

Civilization

was such a big

game, it's hard

to find a topic

that doesn't

feel as though

I'm going

backwards."

"I work pretty much on my own as far as the programming is concerned. The artwork and sound are done by other people. I also have assistants working on research and coding. As a rule, I have a general idea about the game and the others help to fill in the details. For example, in Civilization the researcher pinpointed a lot

of ancient cities, wonders of the world and suchlike."

No doubt about it. Sid's a confirmed PC fan. He's not even allowed himself to be wooed by the prospects of CD-ROM and other newfangled kit. "What's more important is that, hopefully, us designers will learn more about what makes a good game. I believe that games will get better in an evolutionary fashion -I don't see them as suddenly taking a quantum leap. Nor do I think we're hampered by a medium like the PC. OK, there are things

that could be better, but I'm not tearing my hair out."

And talking of good games, how does he come up with them? "Railroads," he replies by way of example, "were something I dug up from my childhood. I think Railroad Tycoon was probably triggered by Sim City. I liked that product because it tended to deal with construction as opposed to previous games that had concentrated on destruction. Choosing what to do next isn't going to be so easy, however. Civilization (his last title) was such a big game that it's hard to find a topic that doesn't feel as if you were going backwards."

"Once I do get an idea, it usually takes me around a year to complete the game — Civilization took rather longer. At the beginning it's usually just me, but by the end there are probably ten of us on a project, so a game like Civilization represents around four to five man-years of work. I write in C. The programming process is basically a continual cycle of mplementing a new feature, testing it out, and then adding another one. C is pretty good for that way of working — it's a very interactive process and it's easy to put something in and then take it out again."

And what's he working on right now, Civilization being such a hard act to follow? "Absolutely nothing! I'm going to take it easy for while!"

F-15 Strike Eagle

**Red Storm Rising** 

F19 Stealth Fighter

Civilization







Railroad Tycoon



#### SPECIAL

Philips has finally launched its Compact Disc Interactive system, and launched 35 software titles for the machine. Could this be the educational software platform that parents have been looking for? Tim Carrigan considers CD-i's potential.

# CD-i: a

he recent launch by Philips of the first Compact Disc Interactive (CD-i) player will create a dilemma for many PC owners, especially those considering upgrading their machines with a CD-ROM drive. For CD-i, Philips plans to offer a wide range of home reference, education and games titles, in short all the areas where CD-Rom for the PC has begun to establish itself.

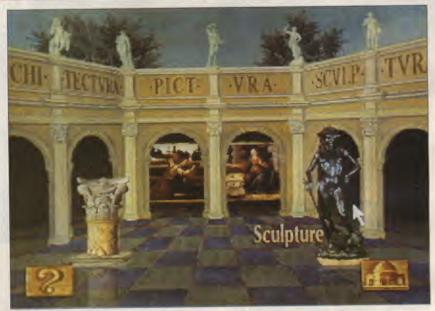
CD-i has been developed by Philips in the hope of establishing a world standard for multimedia publishing on compact disc (another Philips's protégé), in the same way that CD is now universally used for the commercial distribution of music. Philips has been working with both Sony and Matsushista – the parent company of the powerful JVC and Panasonic brands – to ensure that CD-i gets the widest possible support for the consumer electronics industry.

As well as many other consumer electronic firms, both Sony and Matshusta (under its Technics brand) are expected to launch CD-i players in the next 12 months. Sony and Philips have already publicly shown hand-held models, Philips says that its version will be released by the end of the year. Just when other makes of CD-i players will become available is not yet clear, but many are speculating that much depends on the level of enthusiasm that Philips can create with its own initial marketing campaign.

For the moment, there is just one player available, the Philips CD-i 205 machine, which can be found in high street stores across London in such up-market retailers as Harrods and Peter Jones. By September, Philips say that its CD-i player will be available across the country from a wide range of consumer electronics retail outlets.

The 205 machine, like any CD-i machine, is basically a computer boxed up to look like anything but a computer. Inside the sleek exterior are the same gubbins that drive popular home and business computers, along with that all-important CD-ROM drive. For those with a technical bent, the machine's central processing unit is the Motorola 68000 also used in the Amiga 500 and the Macintosh Classic, with the rest of the circuitry provided by Motorola which has an alliance with Philips to develop silicon for the CD-i players. The machine has a 1Mb of RAM and runs a realtime operating system called OS/9, renamed for CD-I as CD-RTOS (Compact Disc Realtime Operating System).

Not that you'd know any of that from



the outside as the machine bears a striking resemblance to a normal CD player. The controls, kept to a minimum, are very simple, with buttons for play, stop, advance a track, open/close, volume and power on/off. The player can be connected both to the TV set and to your stereo stack and the machine can also be used as a standard CD audio player. The TV connection is via an RF lead, and S-Video socket is also provided. Connection to the stereo is via standard phono to phono leads.

The player has no keyboard, but is controlled instead by a two button mouse or joystick. Philips has actually designed a range of input devices for the CD-i machine which include an infra-red remote control unit with a small pointer joystick, two buttons for right and left hand users, and buttons which mirror those on the actual player. Alternatively, there is the roller controller, a big track ball with two buttons that's designed to appeal to children and which connects to the player by a long cable. A joystick or a mouse can also be connected to the machine.

Retailing for just under £600, the system is comparable to the cost of upgrading a bog standard PC to Multimedia PC

specification which includes a CD-ROM drive, a sound sub-system such as the SoundBlaster or MediaVision audio cards, and SuperVGA. As the MPC is based on Windows 3.1, a 386SX with at least 2Mb RAM is also required, but it's widely acknowledged that 4Mb or 8Mb RAM would be more appropriate.

Given that the cost of an MPC machine and a CD-i player is about the same – which is true assuming that you have a PC to upgrade for the MPC, and that you already have a TV and a stereo for the CD-i system – the biggest issue that both these potentially rival systems have to face is software support.

CD-i is riding a double-edged sword here. On the one hand, the fact that the system is designed to integrate with your stereo system and that it can act as a standard CD give it an advantage over a PC CD-ROM drive, though a number of PC drives will play audio discs through your hifi as well. Yet CD-i is at something of a disadvantage when it comes to multimedia titles as it has a completely different operating system to any established desktop PC. This has therefore required the development of completely new titles,



# potential PC rival?



as well as new tools, in the difficult and expensive environment that CD-i still is for programmers. Consequently, there are initially only 35 titles released with the 205 player, and all of them are funded in one form or another by Philips and released its the American Interactive Media subsidiary.

By contrast, the open nature of the PC architecture means that there are many more CD-ROM products available, and that making CD-ROM products is not a matter of telephone number figures. The down side is that very few of the products available for the PC really exploit the full potential of multimedia.

That CD-i has been targeted primarily at young, high-income parents is plain from the software catalogue. The largest category of discs are aimed at children, with such titles as Sesame Street, Cartoon Jukebox, Sandy's Circus Adventure and Story Teller.

In the Sesame Street title, for example, a child can take its own tour along Sesame Street selecting to visit the haunts of popular characters Count, Ernie and Bert, or Big Bird. In each location, there are educational games and exercises. Cartoon lukebox is one of the most interesting titles in the children's collection. It allows a child to pick one of many songs, and then using a very simple paint system, allows them to colour in key characters in the animations associated with that song. At the end of the process, the animation can be played along with the music, with all the colours as the child has selected. The StoryTeller disc works similarly, this time allowing the child to assemble its own StoryBooks by first choosing a background and then adding the character, other props, typed narration and canned music.

One of the most highly developed titles is Sandy's Circus adventure, which has the same paint box system as Cartoon Jukebox, but with more colours available and a much larger number of characters to be painted. The title is also an attempt at interactive fiction as at key points the user can determine the direction of the story.

The real let down for serious games

players is the number and quality of games available for CD-i. In the initial catalogue, there are only five games, and their quality is inconsistent. At one end of the spectrum is the CD-i golf title, The Palm Springs Open, which uses the same course as its namesake. The game features real video players that you can manipulate with the remote control, and rather annoyingly repetitive commentary. While a golf game is nothing new, this implementation adds something to the genre, especially with the use of the full motion video players. Indeed, Philips is so excited about this idea that it has established a special group at American Interactive Media to publish other point-of-view games that use video characters, the next being a baseball game with real video pitchers.

At the other end of the spectrum is the strategy game Defender of the Crown, which is so poorly designed and implemented that it is rendered almost unplayable. Other games include CD-i Pinball, Connect 4, Battleship, all of which ape games available on other platforms.

The rest of the catalogue is given over to home reference and educational titles, many of the them aimed fairly and squarely at young culture hungry professionals. Van Gogh is a good example, as the disc is the multimedia equivalent of a coffee table book of the famous painter. The disc includes high quality representations of his paintings, as well as biographic details. Similar discs on the Renaissance of Florence, and on the Treasure of the American Smithsonian Museum are also available.

Given that it links with CD-Digital Audio (CD-DA) it should be no surprise that music titles feature prominently in the initial 35 titles. Titles such as a disc on Pavarotti, two discs of golden oldies Jukebox discs, and one disc of Louis Armstrong show off the music capabilities of the system.

Surprisingly, there is a dearth of how-to titles, as this is an area in which multimedia has already proved itself effective. The one disc of this type in the catalogue is the title developed with Time Life, based on its popular book on 35mm photography. The disc takes you through various exercises in each of the key areas, and using quarter screen motion video allows you to take a virtual picture of a moving object with camera settings of your choice. You then see the result as it would come back from the photo-finisher.

All in all, though, the CD-i software catalogue so far really fails to deliver anything

that made me feel that I really wanted or needed a CD-i player. However, the same is very much true for CD-ROM on the PC where there are few inspiring titles for the home user. Philips has yet to find the killer application that will define CD-i's success and push the system into the mainstream.

Philips has said that it will bring out a CD-i player with the ability to play full-screen full-motion video from a compact disc by the end of the year. Indeed, it has already shown this in operation and the high quality of the video has been universally lauded. This new player will not only make it possible to sell videos on CD-i—although this will be problematic as a single disc can only carry 72 minutes of video—but, perhaps more importantly, games with full motion video and interactive movies.

Philips has also formed a working relationship with a division of US telecoms giant GTE to develop interactive TV based on the CD-i player. The system works in a similar way to teletext by allowing a broadcaster to include some extra information in the sub carrier of the broadcast signal. This information is archived in the CD-i player and can be called up at any time by the viewer. One example of how the system could be used is in a live sports broadcast where score information could be broadcast constantly, so the user could pull up the information at any time.

CD-i is just one of a whole range of home-oriented multimedia systems in the works, only a few of which will survive the test of the marketplace. One of the most eagerly watched companies is Nintendo who are publicly committed to delivering a CD-ROM upgrade to the NES this year that is expected to retail for around \$200 in the US. Already Nintendo is embroiled in a complex web of deals involving CD-ROM publishing. It has a agreement with Philips' American Interactive Media to jointly develop games for CD-I based on popular Nintendo characters such as Super Mario, and Princess Zelda. Apple, Sega, Commodore, and many others also have CD-ROM based systems in development or on the market creating a veritable alphabet soup of different and competing system for publishing games and infotainment products on CD-ROM.

Finally, of course, CD-Rom on the PC is not going to go away. Software houses are beginning to commit resources to it, and with games on anything up to 12 floppy disks, no-one is denying the need for a new mass storage device.



SCRABBLE 12.99



4.99



F19 STEALTH



3D CONSTR' KIT 8.99



WONDERLAND 14.99



F15 STRIKE EAGLE 2 13.99



6.99



9.99

**FUN SCHOOL 4** 17.99



THREE STOOGES 6.99



ноок 23.99



9.99

11.99



16.99

JIMMY WHITE 24.99



SIM & POP 19.99



M1 TANK PLATOON 12.99



MURDER! 4.99



DUNGEON MASTER 24.49



**OBITUS WITH SHIRT** 13.99





9.99





PRINCE OF PERSIA 9.99

JACK NICKLAUS GOLF C/E



LEMMINGS 16.99



OH NO! MORE LEMMINGS JACK NICKLAUS 12.99 4.99







6.99

	300	N Ac	AL.	1
	N	Nigh	t	1
	-	and	TY	á
6	IVE	agic	111	Ž
100		P. T.		
1			1	7
	n li		33	U
	WIGHT	1 & M	AGIC	2

6.99





GOLDEN AXE 9.49









.19.99

...24.99

..22.99 ..23.99 ..74.99 ..26.99 ..26.99

.24.99 ...24.99

**PHILIPS** 

349.99

TECNO-

**PLUS PHILIPS CM50** 

CDD

461





74.99

PC Software	5.25"	3.5"
3D CONSTRUCTION KIT	16.99	16.99
A-TRAINS	29.99	29.99
A.T.A.C. V	29.99	29.99
A320 AIRBUS E/V	25.99	25.99
ACES OF THE PACIFIC V	26.99	26.99
ACTION MASTERS		
(F16 COMBAT PILOT, ITALY 1990, DOUBLE		
DRAGON 2, TURBO OUTRUN, WELLTRIS)	22.99	22.99
ADAD DUNGEON MASTER ASSISTANT VOL2 (SS	51)7.99.	
ADI ENGLISH (11-12)	19.99	19.99
ADI ENGLISH (12-13)	19.99	19.99
ADI MATHS (11-12)	19.99	19.99
ADI MATHS (12-13)	10.00	19.99
ADVANTAGE TENNIS E/ V	19.99	19.99
AIR BUCKS E/V	22.33	66.00
AIR SEA SUPREMACY		
(GUNSHIP, SILENT SERVICE, P47, F15 STRIKE EAGLE, CARRIER COMMAND)	22.00	23.00
B17 FLYING FORTRESS V	20.00	20.00
BATTLE ISLE E/V	23.00	23 99
BIRDS OF PREY V	26.99	26.99
BLOODWYCH C/E	14.49	14.49
BLUES BROTHERS	17.99	17.99
BREACH 2 (ENHANCED)	18.99	
CASTLES DATA DISK EV	9.49	11.99
CASTLES EV	23.99	23.99
CHAMPIONSHIP MANAGER	19.99	19.99

ADVANTAGE TENNIS E/ V	19.99
AIR BUCKS E/V22.99	22.99
AIR SEA SUPREMACY	
(GUNSHIP, SILENT SERVICE, P47,	
F15 STRIKE EAGLE, CARRIER COMMAND)23.99	23.99
B17 FLYING FORTRESS V29.99	29.99
BATTLE ISLE E/V23.99	23.99
BIRDS OF PREY V26.99	26.99
BLOODWYCH C/E14.49	14.49
BLUES BROTHERS17.99	17.99
BREACH 2 (ENHANCED)18.99	18.99
CASTLES DATA DISK E/V9.49	11.99
CASTLES EN	23.99
CHAMPIONSHIP MANAGER 19.99	19.99
CHECKMASTED 3000 24 99	24.99
CIVILIZATION 26 99	26.99
CONTANT THE CHAMEDIAN EN	19 99
CONAN THE CIMMENIAN EX	26.00
CONDUEST OF THE LONGBOW V 250 COL20.99	4 00
CORRUPTION (M/SCHOLLS)	25.00
CRISIS IN THE KHEMLIN V25.99	21.40
CRUISE FOR A CORPSE C/E/V21.49	21.49
D-GENERATION23.99	23.99
DAILY SPORTS COVER GIRL POKER19.99	19.99
DARKLANDS 256 COL V29.99	29.99
DARKSEED26.99	26.99
DELUXE PAINT 2 ENHANCED64.99	64.99
DICK TRACY ADVENTURE E/V19.99	19.99
DISCOVERY - IN THE STEPS OF COLUMBUS E/V 22.99	22.99
DRAKKHEN C/E	
DUNE E/V26.99	26.99
DUNGEON MASTER C/E/V24.49	24.49
DVNA BLASTERS 23.99	23.99
DYNAMIX VALUE PACK E (HEART OF CHINA.	
STELLAR 7 RISE OF THE DRAGON)	27.99
ELITE 6.99	9.99
ELITE DI LIS EN 26.99	26.99
ELITE PLUS EV	26.99
23.00	23.99
23.40	23.49
EVENOR THE DELICH DED (CC) C/EA/	21.40
EYE OF THE BEHOLDER (SSI) C/E/V	24.00
EYE OF THE BEHOLDER 2 E,V 256 COL24.55	00.00
10.00	26.99
F14 TOMCAT12.99	26.99
F14 TOMCAT 12.99 F15 STRIKE EAGLE 2 13.99	13.99
F14 TOMCAT	13.99
F14 TOMCAT	13.99
F14 TOMCAT 12.99 F15 STRIKE EAGLE 2 13.99 F16 FALCON E 39.99 F16 FALCON V3.0 EV (REQUIRES MS-DOS V.5).32.99 F19 STEALTH FIGHTER MC/E/V 15.99	13.99 39.99 32.99 16.99
F14 TOMCAT 12.99 F15 STRIKE EAGLE 2 13.99 F16 FALCON E 39.99 F16 FALCON V 3.0 EV (REQUIRES MS-DOS V.5) 32.99 F19 STEALTH FIGHTER M/C/E/V 16.99 FANTASY PARTASY PAR	13.99 39.99 32.99 16.99
F14 TOMCAT 12.99 F15 STRIKE EAGLE 2 13.99 F16 FALCON E	13.99 39.99 32.99 16.99
FIA TOMICAT	13.99 39.99 32.99 16.99
ADVANTAGE TENNIS EV 9.99 AND SANTAGE TENNIS EV 22.99 AIR SEAS SUPREMACY 22.99 AIR SEAS SUPREMACY 22.99 AIR SEAS SUPREMACY 22.99 AIR SEAS SUPREMACY 22.99 BIRDS GENERAL E CARRIER COMMAND) 23.99 BIT CLUB CARRIER COMMAND) 23.99 BIT CLUB CARRIER COMMAND 23.99 BIT CLUB CARRIER COMMAND 23.99 BIT CLUB CARRIER COMMAND 23.99 BIRDS OF PREY V 26.99 BIRDS OF PREY V 26.99 BIRDS OF PREY V 26.99 BIRDS OF PREY V 36.99 BIRDS OF PREY V 36.99 BIRDS OF PREY V 36.99 BIRDS OF CLUB COMMAND 36.99 CASTLES EV 36.99 CHAMPIONSHIP MANAGER 9.94 CASTLES CHANACCED 9.94 CHAMPIONSHIP MANAGER 9.94 CONDUEST OF THE LONGBOW V 255 COL 26.99 CONDUEST OF THE LONGBOW V 255 COL 26.99 CONDUEST OF THE LONGBOW V 255 COL 26.99 CRISIS IN THE KREMILIN V 26.99 CRISIS OF THE KREMILIN V 26.99 CRISIS OF THE KREMILIN V 26.99 DARLY SPORTS COVER GIRL POKER 19.99 DARLY SPORTS COVER GIRL POKER 19.99 DARLY SPORTS COVER GIRL POKER 19.99 DARKLANDS 255 COL V 26.99 DISCOVERY - IN THE STEPS OF COLUMBUS EV 2.99 DISCOVERY - IN THE STEPS OF COLUMBUS EV 2.99 DUNGEON MASTER C/EV 24.49 DYNAMIX VALUE PACK E (HEART OF CHINA, STELLAR T, RISE OF THE DRAGON) 27.99 DISCOVERY - IN THE STEPS OF COLUMBUS EV 2.99 DUNGEON MASTER C/EV 24.99 PIN STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT A NIGHTHAWK V 26.99 DUNGEON MASTER C/EV 23.99 FITS TRIBLE OF THE BEHOLDER (SS) C/EV 24.99 FIT STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT STEALTH FIGHT FOR THE BEHOLDER (SS) C/EV 24.99 FIT STRIKE EAGLE 2 3.99 FIT STRIK	13.99 39.99 32.99 16.99
FIA TOMCAT	13.99 39.99 32.99 16.99 13.99 99 26.99
FIG TOMICAT	13.99 39.99 32.99 16.99 13.99 999 26.99
12.99	13.99 39.99 32.99 16.99 13.99 26.99 23.99
12.99	13.99 39.99 32.99 16.99 13.99 9.99 26.99 23.99 23.99
FIA TOMICAT	13.99 39.99 32.99 16.99 13.99 26.99 23.99 23.99 14.99
12.99	13.99 39.99 39.99 16.99 13.99 26.99 23.99 23.99 14.99
FIA TOMICAT	13.99 39.99 32.99 16.99 13.99 26.99 23.99 23.99 14.99 14.99 14.99
FIA TOMICAT	
FIA TO MICAT	13.9939.9932.9916.9913.9923.9923.9923.9914.9917.99
FIA TOMICAT	
FIS TOMICAT	
FIA TOMICAT	
12.99	
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FERRARI FORMULA I C/E FLAMES OF FREEDOM (MIDWINTER 2).  7. LAMES OF FREEDOM (MIDWINTER 2).  7. SEPTION OF THE STATE OF THE	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99
FIS TOMICAT	26.99 23.99 23.99 14.99 14.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99

JET V2.1 C/E (SUBLOGIC)	24.00	24 0
JIMMY WHITES SNOOKER V	4.99	4.9
JACK NICKLAUS GOLF CYE.  JET Y21 CYE (SUBLOGIC)  JIMMY WHITES SNOOKER V.  JINKTER (MYSCROLLS)  NIKTER (MYSCROLLS)  KICK OFF 2 EV  KICK OFF 2 EV  KICK OFF 3 EV  LESURE SUIT LARRY TRIPLE PACK E  LEISURE SUIT LARRY 5 E  LEISURE SUI	10.49	10.4
KICK OFF 2 E/V	9.99 .	9.9
KICK OFF 3 E/V	.18.49	18.4
KINGS QUEST 5 E/V 16 COL (SIERRA)	.27.99	27.9
KINGS QUEST 5 H/D V 256 COL	.29.99	29.9
KNIGHTS OF THE SKY E/V	.26.99	26.9
LEATHER GODDESSES	21 49	21.4
LEIGHBE SHIT I ARRY TRIPLE PACK E	.27.99	27.9
LEISURE SUIT LARRY 5 F	.27.99	27.9
LEISURE SUIT LARRY 5 V 256 COL	.29.99	29.9
LEMMINGS E/V	.16.99	16.9
LEMMINGS DATA DISK - OH NOI	.12.99	12.9
LIFE AND DEATH 2 E/V	.21.49	21.4
LINKS (GOLF) (NORM) V	27.00	27.8
LINKS (GOLF) N/D V	23 99	. 23 9
M1 TANK PLATOON CV	.12.99	12.9
MAGNETIC SCROLLS VOL.1		
(GUILD OF THIEVES, FISH, CORRUPTION) C/E/V	24.99	24.9
MANCHESTER UNITED EUROPE	.19.49	19.4
MARIO ANDRETTI'S RACING CHALLENGE	.19.99	19.8
MAUPITI ISLAND E/V	26.00	26.0
MI TANK PLATOON CV MAGNETIC SCROLLS VOL.1 (GUILD OF THIEVES, FISH, CORRUPTION) C/EV MANCHESTER UNITED EUROPE MARIO ANDRETTI'S RACING CHALLENGE MAUPTI ISLAND EN MAVIS BEACON 2 TYPING TUTOR C/EV MENACE E. MENACE E. MICKEY'S ABC (2-5 YRS) C/E (DISNEY) MICKEY'S ABC (2-5 YRS) E/Y (DISNEY) MICKEY'S COLOURS AND SHAPES (2-5 YRS) E/O (ISNEY) MICKEY'S CROSSWORD PUZZLE MAKER (5-6 YRS) C/E (DISNEY)	.23.99	23.9
MENACE E	7.99	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MICKEY'S 123'S (2-5 YRS) C/E (DISNEY)	.19.99	19.9
MICKEY'S ABC (2-5 YRS) E/V (DISNEY)	.19.99	19.9
MICKEY'S COLOURS AND SHAPES		
(2-5 YRS) E (DISNEY)	19.99	19.5
MICKEY'S CROSSWORD PUZZLE MAKEH	10.00	10.0
(5-8 YRS) C/E (DISNEY) MICKEY'S JIGSAW PUZZLES	19.99	10.0
(5-8 YRS) C/F/V (DISNEY)	.19.99	19.9
MICKEY'S MEMORY CHALLENGE		
(5-8 YRS) E/V (DISNEY)	19.99	19.9
MICROPROSE 3D GOLF	29.99	29.9
MIGHT & MAGIC 2	6.99	27.6
MIGHT AND MAGIC 3 E/V	10.00	23 0
MIRE DITRAS POUTBALL RID E/V	59 99	59.5
MURDER E	4.99	
OBITUS (WITH T-SHIRT) C/E/V	13.99	13.9
PAWN (M/SCROLLS)	9.99	9.5
PGA TOUR GOLF + COURSES E/V	23.99	23.
PGA TOUR GOLF COURSE DISK		
	11 00	111
PITHIGHTEN	.11.99	11.5
PLAN 9 FROM OUTER SPACE E/V	11.99	23.
PLAN 9 FROM OUTER SPACE E/VPOLICE QUEST 3 EPOLICE QUEST 3 V 256 COL	11.99 23.99 26.99 29.99	23.
PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 E POLICE QUEST 3 V 256 COL POLICE QUEST 3 V 256 COL	11.99 23.99 26.99 29.99	23. 26. 29. 21.
POLICE QUEST 3 E POLICE QUEST 3 V 256 COL POOLS OF DARKNESS E/V POPULOUS & SIM CITY C/E/V	11.99 23.99 26.99 29.99 21.99 19.99	11. 23. 26. 29. 21. 19.
PITHIGHTEH PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 E POLICE QUEST 3 V 256 COL POOLS OF DARKNESS EV POPULOUS & SIM CITY C/EV POWERMONGER	11.99 23.99 26.99 29.99 21.99 19.99	11. 23. 26. 29. 21. 19.
PITHIGH LEH PLAN 9 FROM OUTER SPACE EV POLICE GUEST 3 V POLICE GUEST 3 V POLICE GUEST 3 V POLICE GUEST 3 V POULOUS S SIM CITY C'EV POWLERMONGER PREMIER EV	11.99 23.99 26.99 29.99 21.99 19.99 19.99	11. 23. 26. 29. 21. 19. 19. 18.
PITIGHTER PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 E POLICE QUEST 3 V 256 COL POLIS OF DARKNESS EV POPULOUS & SIM CITY C/EV POWERMONGER PREMER EV PRINCE OF PERSIA	11.99 23.99 26.99 29.99 19.99 19.99 18.49	11. 23. 26. 29. 21. 19. 19. 18. 9.
PITIGHTER PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 V 26 COL. PRINCE OF PERSIA PROPHECY V. PROTEXT VERSION 4.3	11.99 23.99 26.99 29.99 21.99 19.99 18.49 9.99 19.49	11. 23. 26. 29. 19. 19. 18. 9. 19.
PITIGHTEM PLAN 9 FROM OUTER SPACE EV POLICE CUEST 3 V POLICE OUEST 3 V POLICE OUEST 3 V POLICE OUEST 3 V POPULOUS OF DARKNESS EV POWLOUS OF DARKNESS EV POWLOUS OF DARKNESS EV POWLOUS OF DARKNESS EV PROMETE V PRINCE OF PERSIA PROPHECY V PROTEXT VERSION 4.3 PUSH-OVER EV	11.99 23.99 26.99 29.99 19.99 19.99 18.49 9.99 19.49 44.99	11 23 26 29 21 19 19 18 9 19 19
PITIGHTEN PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 E POLICE QUEST 3 E POPULOUS A SIM CITY C/EV POPULOUS A SIM CITY C/EV POWERNONGER PREMIER EV PRINCE OF PERSIA PROPHECY V PROTEXT YERSION 4.3 PUSH-OVER EV QUEST 4 GLORY	.11.99 .23.99 .26.99 .29.99 .21.99 .19.99 .19.99 .18.49 .9.99 .44.99 .20.99	11232629191918918919189
PITIGH LEM PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 V 286 COL. POOLS 9F DARKNESS EV POPULOUS & SIM CITY C/EV POWERMONGER PREMER EV PRINCE OF PERSIA PROPHECY PROTEXT VERSION 4.3 PUSH-OVER EV QUEST & GLORY QUEST & GLORY GLOOWYCH, MIDWINTER, CADAVER, BAT)	.11.99 .23.99 .26.99 .29.99 .21.99 .19.99 .19.99 .18.49 99 19.49 44.99	11232629191918
(S4 YES) CE (DISNEY) MICKEY'S JISGAW PUZZLES (S4 YRS) CEV (DISNEY) MICKEY'S MEMORY CHALLENGE (54 YRS) EV (DISNEY) MICKOPORS 30 GOLF MIGHT & MAGIC 2 MIGHT & MAGIC 2 MIGHT & MAGIC 3 EV MIKE DITKAS FOOTBALL HD EV MISDOS S UPGRADE (MICROSOFT) MURDER  DE STORM MICROSOFT) MURDER  POAT TOUR GOLF - COURSES EV POAT OUR GOLF - COURSES EV POAT OUR GOLF - COURSES EV POLICE GUEST 3 E POLICE GUEST 3 V POLICE GUEST 3 V POPULOUS A SIM GITY CEV POWERMONGER  PROPHECY V PRINCE OF PERSIA PROPHECY V PRINCE OF PERSIA PROPHECY V PRINCE OF PERSIA PROPHECY V BESION A.3 PUSH-OVER EV QUEST & GLORY (BLOODWYCH, MIDWINTER, CADAVER, BAT) RACE DRIVIN	.11.99 .23.99 .26.99 .29.99 .21.99 .19.99 .19.99 .18.49 9.99 19.49 20.99	
PITIGH EM PLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 V 286 COL. POOLS OF DARKNESS EV POPULOUS & SIM CITY C/EV POWERMONGER PREMER EV PRINCE OF PERSIA PROPHECY V PRINCE OF PERSIA PROPHECY V QUEST & GLORY GLOOWYCH, MIDWINTER, CADAVER, BAT). RACE DRIVIN. RACE DRIVIN. RALEDAUTYCOON	.11.99 .23.99 .26.99 .29.99 .21.99 .19.99 .19.49 	
PITIGH EM PLAN 9 FROM OUTER SPACE EV POLICE QUEST'S E	.11.99 .23.99 .26.99 .29.99 .21.99 .19.99 .19.49 	
PITIGH EM POLAN 9 FROM OUTER SPACE EV POLICE QUEST 3 V 286 COL. POLICE STANDARD	.11.99 .23.99 .26.99 .29.99 .29.99 .19.99 .19.99 .19.49 .44.99 .20.99 .19.99 .24.98 .23.99 .23.99	
PITIGH EM PLAN 9 FROM OUTER SPACE EV POLICE QUEST'S E	.11.99 .23.99 .26.99 .29.99 .19.99 .19.99 .19.99 .19.44 .99 .20.99 .16.99 .23.99 .23.99 .23.99 .27.99	
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99	24.
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99	24.
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99	24.
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99	24.
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99	24.
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99	24.
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART EY REALMS EY RED BARON N/D V 255 COL RISE OF THE DRAGON N/D V 255 COL RISKEY WOODS C/E/V ROSIN HOOD EY ROSIN HOOD EY ROCKETEER EY (DISNEY) ROCKETEER EY (DISNEY) ROGER RABBIT IN HARE RAISING HAYOC V 255 COL (DISNEY) ROGER BABBIT (WITH SOUND SOURCE DEVICE) V 256 COL (DISNEY)	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	
RAILROAD TYCOON RAMPART E/V REALMS E/V RED BARON H/D V 256 COL RISE OF THE DRAGON H/D V 256 COL	24.99 23.99 23.99 27.99 29.99 20.90 19.99 19.99	

	100 100	STRIKE COMMANDER E/V
CK NICKLAUS GOLF C/E	4.994.99	STRIKE COMMANDER H/D E/V
V2.1 C/E (SUBLOGIC)	24.00 24.00	SUPER SPACE INVADERS
IMY WHITES SNOOKER V	4.00 4.00	SUPER TETRIS EV
XTER (M/SCROLLS)	40.40 40.40	SUPREMACY
E MONTANA FOOTBALL	10.4910.49	TEAM YANKEE 2 E/V
K OFF 2 E/V	9.999.99	TERMINATOR 2 E/V
IGS QUEST 5 E/V 16 COL (SIERRA)	18.4918.49	THE MANAGER
IGS QUEST 5 E/V 16 COL (SIENHA)	20.0027.99	THIRD COURIER
IGS QUEST 5 H/D V 256 COL	29.9929.99	THREE STOOGES C/E
IGHTS OF THE SKY E/V	26.9926.99	TIMEQUEST EV
ATHER GODDESSES	9.999.99	TITUS THE FOX E/V
GEND E/V	27.00 07.00	TV SPORTS (U.S) FOOTBALL E/V
SURE SUIT LARRY TRIPLE PACK E	27.9927.99	TWILIGHT 2000 E/V
SURE SUIT LARRY 5 E	27.9927.99	ULTIMA 6 M/C/E/V
SURE SUIT LARRY 5 V 256 COL	29.9929.99	ULTIMA 7 E/V
MMINGS E/V	16.9916.99	ULTIMA TRILOGY 2 V L/D (ULTIMA 4, 5, 6)
MMINGS DATA DISK - OH NO!	12.9912.99	ULTIMA THILUGT 2 V LID (ULTIMA 4, 5, 6)
E AND DEATH 2 E/V	21.4921.49	ULTIMA UNDERWORLD UNIVERSAL MILITARY SIMULATOR C/E
IKS (GOLF) (NORM) V IKS (GOLF) H/D V RE OF THE TEMPTRESS V	27.99	UNIVERSAL MILITARY SIMULATOR 2 (E/V)
IKS (GOLF) H/D V	27.99	UP PERISCOPE (SUBLOGIC)
RE OF THE TEMPTRESS V	23.9923.99	VENGANCE OF EXCALIBUR
TANK PLATOON C/V	12.9912.99	WILLY BEAMISH E/V 16 COL
GNETIC SCROLLS VOL.1		WINDOWS 3.1 WITH MICROSOFT MOUSE E
UILD OF THIEVES, FISH, CORRUPTION)	UE/V 24.9924.99	WING COMMANDER 2 E/V
NCHESTER UNITED EUROPE	10.00 10.00	WING COMMANDER 2 H/D E/V
ARIO ANDRETTI'S RACING CHALLENG	01.40 01.40	WING CMNDR 2 H/D SPEECH ACCESSORY
AUPITI ISLAND E/V	26.00 26.00	WIZADDRY 6 - BANE OF THE COSMIC
VIS BEACON 2 TYPING TOTOR C/E/V	22 00 22 00	WIZARDRY 6 - BANE OF THE COSMIC FORGE 256 COL V
TRAVELLER 2 E/V	7.00	WONDERLAND C/E/V
NACE E	10 00 10 00	HOHDEREMIND O'CO T TAILMINING
CKEYS 123'S (2-5 THS) C/E (DISNEY)	10.00 10.00	de e
CKEY'S ABC (2-5 YRS) E/V (DISNEY)		CD Rom
CKEY'S COLOURS AND SHAPES	10.00 10.00	100111

LEMMINGS EV  LEMMINGS DATA DISK - OH NO!  LIFE AND DEATH 2 EV  LINKS (GOLF) (NORM) V  LINKS (GOLF) HOV V  LUNE OF THE TEMPTHESS V  MI TANK PLATOON CV  MACNETIC SCROLLS VOL.1  (GUILD OF THIEVES, FISH, CORRUPTION) C/E/V  MARIO AND PRITTS A CING CHALLENGE  MARIO AND PRITTS A CING CHALLENGE  MARIO AND PRITTS A CING CHALLENGE  MANIS BEACON 2 TYPING TUTOR C/E/V  METRAVELLER 2 EV  MECKEY'S 123'S (2-5 YRS) C/E (DISNEY)  MICKEY'S AGE (2-5 YRS) C/E (DISNEY)  MICKEY'S COLONS AND SHAPES  (2-5 YRS) E (DISNEY)	16.9916.99
LEMMINGS DATA DISK - OH NO!	12.9912.99
LIFE AND DEATH 2 E/V	27 99
LINKS (GOLF) (NORM) V	27.99
LURE OF THE TEMPTRESS V	23.9923.99
M1 TANK PLATOON C/V	12.9912.99
MAGNETIC SCROLLS VOL.1	
(GUILD OF THIEVES, FISH, CORRUPTION) C/E/	10.40 10.40
MARIO ANDRETTI'S RACING CHALLENGE	19.9919.99
MAUPITI ISLAND E/V	21.4921.49
MAVIS BEACON 2 TYPING TUTOR C/E/V	26.9926.99
METRAVELLER 2 E/V	23.99 ,23.99
MENACE E	19 99 19 99
MICKEY'S 123'S (2-5 THS) C/E (DISNEY)	19.9919.99
MICKEY'S COLOURS AND SHAPES	
(2-5 YRS) E (DISNEY)	19.9919.99
MICKEY'S CROSSWORD PUZZLE MAKER	
(5-8 YRS) C/E (DISNEY)	19.9919.99
MICKEY'S JIGSAW PUZZLES	10 00 10 00
(3-6 THS) C/E/V (DISNET)	
(5-8 YRS) F/V (DISNEY)	19.9919.99
MICROPROSE 3D GOLF	29.9929.99
MIGHT & MAGIC 2	6.996.99
MIGHT AND MAGIC 3 E/V	27.9927.99
MIKE DITKAS FOOTBALL H/D E/V	50.00 50.00
MISTOR S OPGHADE (MICHOSOFT)	4.99
ORITUS (WITH T-SHIRT) C/E/V	13.9913.99
PAWN (M/SCROLLS)	9.999.99
PGA TOUR GOLF + COURSES E/V	23.9923.99
PGA TOUR GOLF COURSE DISK	11.9911.99
PITFIGHTER	22 00 22 00
PLAN 9 FROM OUTER SPACE E/V	26.9925.99
POLICE QUEST 3 V 256 COL	29.9929.99
POOLS OF DARKNESS E/V	21.9921.99
POPULOUS & SIM CITY C/E/V	19.9919.99
POWERMONGER	19.9919.99
PREMIER E/V	18.4918.49
PRINCE OF PERSIA	19.49 19.49
PROPRECT V	44.9944.99
PUSH-OVER E/V	20.9920.99
QUEST & GLORY	
(BLOODWYCH, MIDWINTER, CADAVER, BAT).	16.9916.99
RACE DRIVIN	19.9919.99
RAILROAD TYCOON	23 99 23 99
DEALMS EN	23.9923.99
RED BARON H/D V 256 COL	27.9927.99
RISE OF THE DRAGON H/D V 256 COL	29.9929.99
RISKEY WOODS C/E/V	20.9920.99
ROBIN HOOD E/V	10.00 10.00
ROBOCOP 3 C/V	19.9919.99
BOGER BARRIT IN HARE BAISING	
HAVOC V 256 COL (DISNEY)	19.9919.99
MENACE E.  MICKEY'S 123'S (2-5 YRS) C/E (DISNEY)  MICKEY'S ABC (2-5 YRS) E/E (DISNEY)  MICKEY'S COUNTED AND SKAPES  MICKEY'S CHOSSWORD PUZZLE MAKER  (5-8 YRS) C/E (DISNEY)  MICKEY'S MEMORY CHALLENGE  (5-8 YRS) C/E (DISNEY)  MICKEY'S MEMORY CHALLENGE  (5-8 YRS) E/Y (DISNEY)  MICROPROSE 3D GOLF.  MICHORY MICKEY'S MEMORY CHALLENGE  (5-8 YRS) E/Y (DISNEY)  MICROPROSE 3D GOLF.  MICHORY MICKEY'S MEMORY CHALLENGE  (5-8 YRS) E/Y (DISNEY)  MICROPROSE 3D GOLF.  MICHORY MICKEY'S MEMORY CHALLENGE  (5-8 YRS) E/Y (DISNEY)  MICROPROSE 3D GOLF.  MICHORY MICKEY'S MEMORY CHALLENGE  MICKEY'S MEMORY CHALLENGE  MICHORY MICKEY'S MEMORY CHALLENGE  MICKEY'S MEMORY CHALLENGE  MICHORY MICKEY'S MEMORY CHALLENGE  MICKEY'S MICKEY'S MEMORY  MICKEY'S MEMORY CHALLENGE  MICKEY'S MICKEY COUNTS  MICKEY'S MICKEY COUNTS  MICKEY'S MICKEY COUNTS  MICKEY'S MICKEY COUNTS  MICKEY MICKEY COUNTS  MICKEY MICKEY COUNTS  MICKEY MICKEY'S MICKEY  MICKEY'S MICKEY COUNTS  MICKEY MICKEY COUNTS  MICKEY MICKEY COUNTS  M	
SOURCE DEVICE) V 256 COL (DISNEY)	35.9935.99
ROLLING RONNY 256 COL V	14.00
SAVAGE EMPIRE (NORM) EV	12.9912.99
SECRET OF MONKEY ISLAND	21.49
SECRET OF MONKEY ISLAND 2 V	21.4921.49
SECRET WEAPONS OF THE LUFTWAFFE	24.9924.99
SHADOW SORCERER E/V	17.9917.99
SHADOWLANDS	22 00 23 00
CHITTI E EN	24.9924.99
SIERRA STARTER PACK E	
(KINGS QUEST 1, LEISURE SUIT LARRY 1,	
SPACE QUEST 1)	27.9927.99
SILENT SERVICE 2 C/E/V	22.0026.99
SIM ANT	19 9919 99
SIM FARTH MC/F/V	27.9927.99
SONS OF LIBERTY (SSI)	3.99
SPACE QUEST 4 E/V 16 COL	27.9927.99
SPACE QUEST 4 V 256 COL (SIERRA)	27.9927.99
SPACE QUEST TRIPLE PACK E	22.00 22.00
STAM THEK (INTERPLAY) E/V	19.9919.99
SHANGHAI 2 SHUTTLE EN SIERRA STARTER PACKE (KINGS QUEST 1, LEISURE SUIT LARRY 1, PPACE QUEST 1) SILENT SERVICE 2 C/E/V SIM ANT SIM ERATH MC/E/V SIM EARTH MC/E/V SONS OF LIBERTY (SSI) SPACE QUEST 4 E/V 16 COL SPACE QUEST 4 E/V 16 COL SPACE QUEST 1 E/V 16 COL STAR TREK (INTERPLAY) E/V STORM MASTER E/C/V	

# 

BRITANNICA FAMILY CHOICE	
(COMPILATION OF 15 TITLES FROM EARLY	
LEARNING TO MILLIONAIRE 2 STOCK MARKET	-
AND REVOLUTION '76 POLITICS)	.59.8
CHESS MASTER 3000	34.1
GROLIERS ILLUSTRATED ENCYCLOPEDIA	249.
GUINNESS DISC OF RECORDS	.59.1
GUNSHIP AND MIDWINTER	.29.1
INFOCOM COLLECTION (WISHBRINGER, LEATHER GODDESSES OF PHOBOS,	
PLANETFALL AND HITCH HIKERS GUIDE)	20 (
JAPAN WORLD	44
KINGS QUEST 5	. 29
M1 TANK PLATOON	29.
MAGNETIC SCROLLS COMPILATION	
(FISH, CORRUPTION AND GUILD OF THIEVES)	26.
MIG SUPER FULCRUM AND MIG 29	39.
PRINCE OF PERSIA AND VIETNAM	41.
RAIL ROAD TYCOON	29.
RFALMS	26.
RICK DANGEROUS, 3D POOL AND SAVAGE	29.
SHERLOCK HOLMES MULTIMEDIA	39.
SPIRIT OF EXCALIBUR	26.
SUPREMACY	26.
ULTIMA SERIES 1-6	54.
WING COMMANDER AND ULTIMA 6	39.
WING COMMANDER WITH MISSIONS 1 & 2	39.
WONDERLAND	20.
WORLD ATLAS VERSION 2 MOLTIMEDIA	08
ZORK TRILOGY (ZORK1, ZORK 2, ZORK 3)	20



CD ROM DRIVE FOR PC WITH AUDIO
CD FUNCTIONS INDEPENDENT OF THE PC
FREE SPECIAL RESERVE MEMBERSHIP



299.99 CD ROM DRIVE FOR PC WITH CD NOM DRIVE FOR PC WITH WORLD ATLAS, CHESSMASTER 2000, LIFE & DEATH, BRUCE LEE, BLACK HOLE, GIN KING, THESAURUS, DICTIONARY, SPELL CHECKER, 20TH CENTURY HISTORY, CONCISE WRITING FREE SPECIAL RESERVE MEMBERSHIP

# MOUSE

**NAKSHA MOUSE** FOR PC WITH DELUXE PAINT 2 39.99

> SQUIK SERIAL MOUSE FOR PC (INCLUDES DRIVER SOFTWARE 17.99

#### **Printers**



#### CITIZEN 120D+ PRINTER

9 PIN, 80 COLUMN, 144 CPS/25NLQ, 2NLQ/1 DRAFT FONT, 24 MTH WARRANTY. HIGH QUALITY MONO PRINTER. FREE MEMBERSHIP FREE PRINTER LEAD 134.99

#### **CITIZEN SWIFT 9**

WITH COLOUR KIT 9 PIN, 80 COLUMN, 192CPS/48NLQ, 3NLQ/J DRAFF FONT, 24 MTH WARRANTY.
A 9 PIN PRINTER WITH COLOUR FACILITY AND FULL PAPER HANDLING FUNCTIONS FREE MEMBERSHIP FREE PRINTER LEAD FREE COLOUR KIT 199.99

#### CITIZEN 224 24 PIN

WITH COLOUR KIT, 80 COLUMN, 192CPS/64LQ, 3LQ/1 DRAFT FONT, 24 MTH WARRANTY. 24 PIN LETTER QUALITY PRINTER WITH EXCELLENT GRAPHICS (360X360 DPI). FREE MEMBERSHIP FREE PRINTER LEAD FREE COLOUR KIT 249.99

#### **CITIZEN SWIFT 24E**

WITH COLOUR KIT 24 PIN, 80 COLUMN, 216CPS/72LO, 6LO/1 DRAFT FONT, 24 MTH WARRANTY. ADVANCED VERSION OF 224 WITH HIGHER SPEED, MORE FONTS AND SPECIAL LCD CONTROL PANEL. FREE COLOUR KIT 279.99

STAR LC20 9 PIN, 80 COLUMN, 180 CPS/45NLQ, 4NLQ/1 DRAFT FONT, 12 MTH WARRANTY FREE MEMBERSHIP FREE PRINTER LEAD 144.99

#### STAR LC200 COLOUR

9 PIN, 80 COLUMN, 180CPS/45NLQ, 4NLQ/1 DRAFT FONT, 12 MTH WARRANTY 199.99 FREE PRINTER LEAD

#### STAR LC24-20 24 PIN

80 COLUMN, 192CPS/64LQ, SLQ/1 DRAFT FONT, 12 MTH WARRANTY, 24 PIN QUALITY AT 9 PIN PRICE FREE MEMBERSHIP FREE PRINTER LEAD 209.99

RIBBON FOR SWIFT 9 OR 120D+	6.
RIBBON FOR SWIFT 24 OR 224	6.
RIBBON (COLOUR) FOR SWIFT 9, 24 OR 2241	
RIBBON FOR STAR LC20	
RIBBON FOR STAR LC200	
RIBBON FOR STAR LC24-20	
RIBBON (COLOUR) FOR STAR LC2001	0.

DUST COVER FOR 80 COLUMN
PRINTER (CLEAR PVC)......
PRINTER LEAD (PARALLEL)
FOR AMIGA, ST OR PC....
PRINTER STAND (2 PIECE, FITS ANY PRINTER)



## Special Reserve 0279 600

C = CGA (Colour Graphics Adaptor), E = EGA (Enhanced Graphics Adaptor) V = VGA (Video Graphics Array). M = Mono, HD = High Density Disks.

#### PC Peripherals



#### SOUND BLASTER

MUSIC/VOICE/MIDI SOUND BOARD WITH INBUILT ANALOGUE JOYSTICK PORT. UK'S BEST SELLER. 109.99

#### SOUND BLASTER STARTER PACK

FOR PC (SOUND BLASTER SOUND BOARD, SUNCOM PC JOYSTICK, TWO SCREENBEAT SPEAKERS). INCLUDES EVERYTHING NEEDED TO CONVERT A PC INTO A GAMES MACHINE. 144.99

SOUND BLASTER PRO SOUND BOARD FOR PC (INCLUDES CD-ROM INTERFACE, MIDI INTERFACE, DIGITAL & ANALOGUE MIXER, AMPLIFIER, SOFTWARE) ........199.9 STEREO SPEAKERS FOR SOUNDBLASTER (REQUIRE MAINS ADAPTOR OR BATTERIES)....... MAINS ADAPTOR FOR SPEAKERS (SWITCHABLE)

#### PC LEISURE STARTER PACK

(COVOX SOUNDMASTER, SCREENBEAT SPEAKERS, M6 ANALOGUE JOYSTICK AND QUICKJOY GAMESCARD)

99.99

COVOX SOUNDMASTER SOUND BOARD FOR PC

69.99



CREENBEAT STEREO SPEAKERS 

MAINS ADAPTOR FOR SCREENBEAT SPEAKERS



SOUND SOURCE BOX FOR MOST PC DISNEY SOFTWARE (GENERATES SOUND EFFECTS, PLUGS INTO PRINTER PORT) 26.99

GRAVIS ANALOGUE JOYSTICK FOR PC (15 PIN ) 24.99

QUICKSHOT WARRIOR 5 ANALOGUE JOYSTICK FOR PC (15 PIN )

ANALOGUE EDGE JOYSTICK (15 PIN) 19.99



CH FLIGHT STICK ANALOGUE JOYSTICK (15 PIN) 29.99



CLEANING KIT FOR COMPUTERS (INCLUDES VACUUM) 19.99

> QUICKSHOT GAMES CARD PLUS JOYSTICK FOR PC. QS120 TWIN PORT GAMES CARD WITH QS113 ANALOGUE JOYSTICK

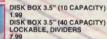
SHOT QS120 GAMES CARD
OGUE, 15 PIN) FOR PC, TWIN PORTS
V USE OF TWO ANALOGUE JOYSTICKS. ......13.99 VGA GRAPHICS CARD FOR PC ....



DELUXE DISK BOX 3.5" (80), LOCKABLE, DIVIDERS



BANX DISK BOX 3.5" (80) STACKABLE



7.99 DISK BOX 3.5" (80 CAPACITY) LOCKABLE, DIVIDERS

DISK BOX 3.5" (100) DIVIDERS, LOCKABLE 3.5" DISK HEAD CLEANER



10 PACK GOLDSTAR 5.25" DSDD DISKS (96 TPI, 720K) 4.49 10 PACK GOLDSTAR 5.25° HIGH DENSITY DISKS (1.2 MEG) 5.99

Goldstar

3.5" DS/DD **DISK with LABEL** 

69p each or

24.99 for 50

3.5" GOLDSTAR DSDD 69p Each

PACK OF 50 GOLDSTAR 3.5" DSDD DISKS WITH LABELS 24.99

3.5" GOLDSTAR HIGH DENSITY DISK (1.4 MB) 99p Each

#### Consoles

WE DO NOT SELL GREY IMPORTS



NINTENDO GAMEBOY WITH STEREO HEADPHONES, TWO PLAYER LEAD AND TETRIS FREE £3.00 REPLAY VOUCHER FREE HOLSTERS, BELT AND CARTRIDGE HOLDER 69.99



4096 COLOURS, 64K RAM, 16MHz PROCESSOR, 8 MEG GAME CAPACITY, 4 CHANNEL SOUND, BACKLIT SCREEN FREE MAINS ADAPTOR FREE MEMBERSHIP



SEGA GAME GEAR RUNS A WIDE SELECTION OF GAMES AND IS COMPATIBLE WITH MASTER SYSTEM GAMES USING A MASTER GEAR CONVERTER WITH COLUMNS GAME FREE MAINS ADAPTOR 99.99



SEGA GAME GEAR WITH SONIC THE HEDGEHOG AND SEGA MAINS ADAPTOR FREE SUPER MONACO GRAND PRIX GAME FREE SPECIAL RESERVE MEMBERSHIP



**SEGA MASTER SYSTEM 2** 8-BIT GAMES SYSTEM WITH A HUGE CHOICE OF GAMES AT REASONABLE PRICES. UPWARDLY COMPATIBLE TO GAME GEAR AND MEGADRIVE WITH TWO JOYPADS AND SONIC THE HEDGEHOG 79.99 FREE MEMBERSHIP



SEGA MEGADRIVE
16-BIT GAMES CONSOLE WITH CONTROLLER AND SONIC THE HEDGEHOG FREE MEMBERSHIP FREE EXTRA TURBO

129.99

Megadrive Game	<b>es</b>
688 ATTACK SUB	31.99
AFTERBURNER 2  ALEX KIDD IN ENCHANTED CASTLE ALIEN STORM	27.99
ALEX KIDD IN ENCHANTED CASTLE	17.99
ALIEN STORM	27.91
ALISIA DRAGON	35.99
ALISIA DRAGON ART ALIVE BACK TO THE FUTURE 3 BATMAN (ORIGINAL VERSION) BUCK ROGERS	21.00
BATMAN (ORIGINAL VERSION)	32.96
BUCK ROGERS	39.99
BUDOKAN BULLS VS LAKERS CALIFORNIA GAMES	31.99
BULLS VS LAKERS	31.99
CALIFORNIA GAMES	31.99
D.ROBINSON BASKETBALL	21.04
DESERT STRIKE	31.99
DESERT STRIKE	32.99
DJ BOY	31.99
DONALD DUCK - QUACKSHOT	32.99
F22 INTERCEPTOR	28.99
FANTASIA	21.00
FIRE SHARK	31.99
GALAXY FORCE 2	32.99
FIRE SHARK GALAXY FORCE 2 GHOULS N GHOSTS	35.99
GYNOUG	31.99
HEADBANGERS BALL	31.99
IMMORTAL	35.90
IT CAME FROM THE DESERT	32.99
IMMORTAL IT CAME FROM THE DESERT JOE MONTANA'S U.S. FOOTBALL 2	31,99
JOHN MADDEN '92	32.99
KID CHAMELEON	31.99
I AST RATTI E	17.00
MARIO LEMIUX HOCKEY	31.99
MERCS	31.99
LAST BATTLE MARIO LEMIUX HOCKEY MERCS. MICKEY MOUSE MIDNIGHT RESISTANCE. NPL ICE HOCKEY	31.99
MIDNIGHT RESISTANCE	31.99
OLYMPIC GOLD	31.99
ONSLAUGHT PACMANIA PAPERBOY PGA GOLF TOUR PHANTASY STAR 3	24.95
PACMANIA	31.96
PAPERBOY	31.99
PGA GOLF TOUR	31.99
PHANTASY STAR 3	39.99
PHELIOUS	28.99
REVENGE OF SHINORI	28.90
ROAD RASH	32.99
ROBOCOD (JAMES POND 2)	32.99
SHINING IN THE DARKNESS	39.99
SPACE HARRIER 2	17.99
SPEEDBALL 2 ,	21.00
PHANTASY STAR 3 PHELIOUS PITEIGHTER REVENGE OF SHINOBI ROAD RASH ROBOCCOD (JAMES POND 2) ROBOCCOD (JAM	39.99
STREETS OF RAGE	29.99
STRIDER	35.99
SUPER HANG ON	17.99
SUPER HYDLIDESUPER REAL BASKETBALL	31.99
SUPER THUNDERRIADE	17.00
SUPER THUNDERBLADE	39.00
TAZMANIATHUNDERFORCE 2	32.99
THUNDERFORCE 2	27.99

THUNDERFORCE 3 TOE JAM AND EAR

ZERO WING

#### **Gameboy Games** ADVENTURE ISLAND

BALLOON KID BART SIMPSON'S ESCAPE FROM CAMP DEADLY BATMAN	21.	99
BART SIMPSON'S ESCAPE		
FROM CAMP DEADLY	23.	.99
BILL AND TEDS	23,	99
EXCELLENT ADVENTURE	25.	.99
BILL AND TEDS EXCELLENT ADVENTURE BLADES OF STEEL BOULDER DASH BOXXLE	23.	99
BOULDER DASH	23.	99
BOXXLE	16.	99
BUBBLE BOBBLE	23.	99
BUBBLE GHOST .,	21.	.99
BUGS BUNNY	21.	99
BOXXLE BUBBLE BOBBLE BUBBLE GHOST BUGS BUNNY BURAI FIGHTER DELUXE BURGERTIME DELUXE CASTLEVANIA CHASE HO CHOPLIFTER 2 DOUBLE DRAGON DOUBLE DRAGON DOUBLE DRAGON DOUBLE DRAGON DO BUBLE DRAGON DO BUBLE DRAGON DO BUBLE DRAGON	16.	99
BURGERTIME DELUXE	21.	99
CASTLEVANIA	16.	98
CHASE HQ	23.	.99
CHOPLIFTER 2	23.	.99
DOUBLE DRAGON	21.	99
DOUBLE DRAGON 2	23.	.99
DR FRANKEN	25.	99
DR. MARIO DRAGON'S LAIR - THE LEGEND	21.	99
DRAGON'S LAIR - THE LEGEND	25.	99
DUCK TALES	23	96
DYNA BLASTER	16.	99
DYNA BLASTER FOOTBALL INTERNATIONAL	23.	99
FOUNDAL INTERNATIONAL FORMULA 1 RACE (WITH FOUR PLAYER ADAPTOR) GAAGOYLES QUEST GAUNTLET 2 GHOSTBUSTERS 2 GOLF GREMLINS 2 HOME ALONE		
FOUR PLAYER ADAPTOR)	27.	99
GARGOYLES QUEST	21.	99
GAUNTLET 2	23.	99
GHOSTBUSTERS 2	21.	99
GOLF	19.	99
GREMLINS 2	23.	98
HOME ALONE	23.	99
HOOK	23.	99
HUNT FOR RED OCTOBER	23.	99
HYPERLODE RUNNER	16.	99
GREMLINS 2 HOME ALONE HOUNT FOR RED OCTOBER HYPERLODE RUNNER KICK OFF. KID ICARUS KUNG FU MASTER KWINK MARBLE MADNESS. MERCENARY FORCE MOTOR CROSS MANIACS.	24.	49
KID ICARUS	21.	99
KUNG FU MASTER	16.	99
KWIRK	21.	99
MARBLE MADNESS	23.	98
MERCENARY FORCE	23.	99
MOTOR CROSS MANIACS	16.	99
MOTOR CROSS MANIACS NAVY SEALS NEMESIS NINTENDO WORLD CUP OTHELLO PACWAN PAPERBOY PAPINCESS BLOBETTE O-BERT OIX. R-TYPE REVENGE OF THE GATOR ROBOCOP SIDE POCKET	21:	99
NEMESIS	21.	99
NINTENDO WORLD CUP	21.	99
OTHELLO	21.	99
PACMAN	23.	99
PAPERBOY	21.	99
PRINCESS BLOBETTE	23.	99
Q-BERT	23	99
OIX	21.	99
R-TYPE	23	99
REVENCE OF THE GATOR	21	90
ROBOCOP	23	90
SIDE POCKET	21	90
SKATE OR DIE	21	99
SNEAKY SNAKES	23	99
SNOOPY'S MAGIC SHOW	23	90
SOLOMON'S CLUB	23	99
SPIDERMAN	21	99
SUPER MARIO I AND	21	99
ROBOCOP SIDE POCKET SKATE OR DIE SNEAKY SNAKES SNOOPY'S MAGIC SHOW SOLOMON'S CLUB SPIDERMAN SUPER MARIO LAND SUPER MARIO LAND SUPER MARIO LAND	23	99
SUPER RC PRO-AM TEENAGE MUTANT HERO TURTLES TENNIS TERMINATOR 2 TRAX	23	90
TENNIS	19	40
TERMINATOR 2	26	90
TRAX	21	90
TIPPICAN	25	99
TURRICAN WIZARDS AND WARRIORS WWF SUPERSTARS	21	99
WWF SUPERSTARS	23	90
The same taken and the same to		-0

#### Open to 8pm Weekdays and to 5pm Weekends

ANNUAL MEMBERSHIP UK £6.99 EEC £8.99 WORLD £10.99

The Special Reserve full colour ciub magazine NRG is sent to all members bi-monthly. NRG features full reviews of new games plus mini-reviews, all the gen on new products, the

recial Reserve

Special Reserve charts, Release Schedule of new games and hundreds of special offers.
PLUS - EVERY ISSUE CONTAINS

£30 worth of money-off coupons to save even more money off our amazing prices.

We sell games and accessories, all at amazing prices, for Megadrive, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, iBM PC, CDTV and iBM CD ROM.

Best Service, Best Prices, Biggest Selection That's why over 100,000 people have joined Special Reserve.

#### PHONE 0279 600204 FOR FREE CATALOGUE

## Game Gear Games AXE BATTLER BASEBALL CHESS MASTER COLUMNS CRYSTAL WARRIORS D ROBINSON BASKETBALL D ROBINSON BASKETBALL DEVELISH DONALD DUCK DRAGON CRYSTAL FACTORY PANIC FANTASY ZONE GEAR HALLEY WARS JOE MONTANA (U.S.) FOOTBALL LEADER BOARD MICKEY MOUSE NINJA GAIDEN OUTMING GOLD OUTRUN PENGO PSYCHIC WORLD.... PUT & PUTTER GOLF SHINOBI PUT & PUTTER GOLF ... SHINDBI ... SUITAIR POKER ... SOILTAIR POKER ... SOILTAIR POKER ... SOILTAIR POKER ... SUPACE HARRIER ... SUPER KICK OFF ... SUPER KICK OFF ... WONDER BOY ... WONDER BOY ... WONDER BOY ... WONDER BOY ... WOODY POP



NINTENDO SUPER NES WITH SUPER MARIO WORLD 149.99

FREE EXTRA CONTROLLER
FREE STEREO LEAD
FREE MARIO GAME & WATCH FREE £5.00 REPLAY VOUCHER FREE MEMBERSHIP

#### **Super NES Games**

)	F-ZERO		 	 37.99
)	SUPER R	TYPE		 37.99
	SUPER SO			37.99
)	SUPER TE	INNIS		 37.99

Inter-Mediates Ltd. Registered Office: 2 South Block, The Maltings, Sawbridgeworth, Herts CM21 9PG.

INEVITABLY, SOME GAMES MAY NOT YET BE RELEASED PLEASE PHONE SALES ON 0279 600204 FOR LATEST

RELEASE DATES AND STOCK AV	AILABILITY.
WE ONLY SUPPLY MEMBERS BUT YOU CAN ORE THERE IS A SURCHARGE OF 50p PER GAME ON TEL (PLEASE PRINT IN BLOCK CAPITALS)	
Name	
Address	
Postcode	
PhoneMachine	3.5"/5.25" DELETE ONE
Enter membership number (if applicable) or Membership £6.99 UK, £8.99 EEC, £10.99 Work	d
item	
item	
item	
item	
ALL PRICES INCLUDE UK POSTAGE & VA	£
Cheque/P.O./Access/Mastercard/Switch/Visa Switch	ch Issue No

Credit card

Cheques payable to: SPECIAL RESERVE P.O. BOX 847, HARLOW, CM21 9PH

Overseas Orders: EEC software orders - no extra charge
World software orders please add £1.00 per item.

Non-software items please add 10% EEC or 25% World.

Overseas orders must be paid by credit card.



# Teview FIRST STEPS

### **JOYSTICKS AND GAME PORTS**

In this series of articles about the PC, hardware and software, we'll be taking you, step by step, through the ins and outs of using, controlling and upgrading your machine.

You'll find out what the PC's components are, how to use them, and how to use your PC software to get the best out of your computer.

Every good game needs a joystick, but joystick ports aren't standard issue on PCs as they are on other home computers. This month Paul Presley explains how to install game cards and what kinds of joysticks there are on the market.



ne of the main factors that separates PCs from other mainstream home computers as a games machine is that most PCs don't come with joystick ports built-in. It could be said that the reason Amigas and STs failed to become serious computers was that software developers saw the joystick ports and merely thought "It's a games machine", thus not really bothering to try to develop them beyond the sophisticated console image that they appear to have become stuck in.

PCs, on the other hand, have had to develop the other way, starting out as keyboard, then mouse-driven business computers, before arriving at their current all-round status. To this end, the joystick manufacturers from the Amiga and ST world have had to start developing 'game cards' for us to plug our specially designed PC joysticks into.

It's not just the PCs and the cards that have undergone radical changes and developments. Once the gaming potential of the PC was spotted, dedicated companies have worked on all manner of control sticks, from standard two-button arcade types to the weird and wonderful flight yokes and pedal controllers. In fact, as the quality of PC games has evolved beyond its rivals and counterparts, so the PC joystick has evolved to match.

#### Where to start

As with a lot of areas in the PC gaming world, joysticks are subject to the myths and rumours of installation complexity and compatibility problems. Of course, these myths are simply that, a fear of the unknown, worries that by opening the back of your machine you will somehow wreck it for life.

To connect a joystick you simply need two things, a suitable game card and the stick itself. This is the first mistake that is usually made, assuming that any joystick will fit into a game card. Always make sure that you check whether the shining black masterpiece of ergonomically designed plastic moulding and microswitches is actu-

# WITHIEPC



ally PC compatible. Standard joysticks have 9-pin female connectors, an analogue PC joystick requires a 15-pin male connector.

There are products on the market that allow you to use standard digital joysticks with your PC — usually just a simple connector box with a 9-pin input socket on one end and a 15-pin output lead on the other — but these are really only worth considering if you can't find a PC stick to suit your tastes, a task that should be made easier by reading the following.

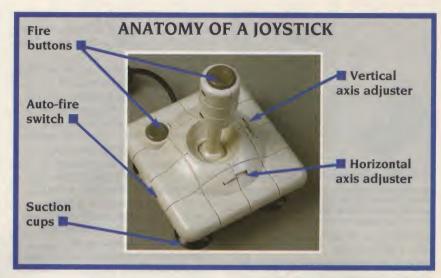


The Arcade, the Pistolstick, the Quickjoy M5 and the Quickjoy PC Topstar. Standard joysticks, suitable for most types of game.

Simple sticks for simple pleasure

To start with, we have several interestingly designed but not particularly special joysticks. These are the standard sticks, useful for most games, from platform romps to flight simulations, coming in a variety of shapes, sizes and colours (some are even transparent so that you can see how pushing the shaft left causes your F-16 to plummet into the ground). The important thing to consider here is how comfortable you find them. Joystick tastes differ wildly from one person to the next. The pistol grip, button atop the shaft, suckers on the base stick that loe finds so easy to use with Prince of Persia, could quite easily be so unwieldy with Fred that it causes severe wrist-ache only marginally slower than it causes the Game Over legend to appear on the screen. Ask your retailer if you can try a stick out before you hand over your money. A comfortable stick in the hand is worth two painful ones on the shelf.

If it's a general all-purpose stick that you're after, then it's well worth considering purchasing a 9-pin joystick adapter. Plugging this into your PC will



enable you to take full advantage of the many sticks available on other computer formats. Because PC games are often much more involving than others (deep, immense strategy epics or ultra-realistic flight simulators), PC joystick designers tend to prefer to create the more unusual stick. Having a converter allows you to pick and choose from the huge catalogue of 'simple' sticks that support the fiveminute wonder fraternity.

Sharpening your axis

There is a trend for most PC-dedicated joysticks to be small enough to fit into the palm of your hand, contain two buttons in the top left corner and have a small shaft (sometimes with a third button on top) surrounded by sensitivity and axis adjusters. I've always found these sticks somewhat of a pain to use, mainly because I seem to be constantly adjusting the X and Y axes to stop the on-screen sprite from



The Mach range of joysticks – the Mach I, Mach I+, Mach II and Mach III – plus the Joystick 600 and the Quickjoy PC Connection.

doing his own thing.

Personal prejudices aside, though, I have heard lots of good things about these types of sticks. They may be small but they're very sturdy (I haven't heard of any breaking yet and those tested all stood up to a pretty strenuous game of Red Baron).

What the adjusters do is to ensure that the readings sent out by the joystick when it's in different positions are OK with the limits defined by the program. If they are out somewhat, you adjust the settings until they match up. This is usually achieved by a joystick calibration screen, called up when you select joystick control for the game (see Step By Step panel). Adjusting the trim controls stops the joystick from favouring a certain direction when left in neutral, something that can cause all sorts of problems when your biplane suddenly starts diving for no apparent reason.

### A mouse by any other name

One of the most versatile types of joystick around has to be the Gravis MouseStick. Simply put, it is a very elegant and classy joystick, with a large sturdy base, several well-positioned fire buttons and a large, foam padded handle that, when not being abused in the usual manner of game-hungry stick destroyers, doubles as a mouse.

It's actually very hard to abuse the MouseStick, mainly because the basic model just looks so resplendent you hardly even want to use it gently, preferring to just let it sit there looking pretty. Still it is very responsive as a joystick, never needs calibrating as it has special software that

#### **Optical sticks**

A joystick soon appearing in all good home cockpits is the Free Flight optically-driven stick. The Free Flight is designed to give the most realistic feeling of flight control ever by using optical sensors to precisely measure the joystick's angular movement.

Looking simply like an over-sized joystick without a base, the Free Flight is actually incredibly responsive and adapts from standard flying simulators to modern jet fighters to World War I biplanes with ease. Resting the rounded rubber base of the shaft on a flat surface, the player uses his whole arm to move the stick instead of just his wrist. The rubber base stops it from sliding all over the place and the only real problems (and even then they're not too tricky) seem to occur when calibrating it.

Don't expect to be able to play arcade games with the Free Flight. As the name implies, it's purely a flight sim stick. Racing fans can rest easy though. RC Simulations, the company behind the Free Flight, is working on a similarly designed, optically-driven steering wheel.



### FIRST STEPS WITH THE PC



The Gravis Mousesticks in varying shades, plus the Gravis gamecard that is supplied with the whole package. The Mousesticks can be custom ordered in a variety of colours to suit your machine.

does it all automatically and isn't very likely to wear out in a hurry.

As a mouse, it's even nicer, although it's not quite the same as using the real McCoy, with 1,200 lines of optical precision providing its performance and a fully adjustable tension switch for the handle to let you get just the right amount of resistance in the shaft. It also comes with its own game card, complete with an extra socket for yet another joystick (or two if you use a "Y" cable).

The fighter pilot feeling

Flight simulator enthusiasts that want the ultimate in realism are easily the most catered for by PC joystick manufacturers. Apart from the completely over the top

flight yokes (I'll come to those in a minute), there are three control sticks that are well worth a look by every budding young Tom Cruise.

First up is the Flightstick, possibly one of the most favoured flight simulator joysticks around, two buttons on the top of the shaft and its own throttle wheel for games that support this option.

The throttle wheel replaces the need for keyboard speed controls (usually the numeric keys along the top of the keyboard) by having it right next to the stick. However, it doesn't allow you to control the other functions of most modern fighter planes, such as chaff, flares or landing gear, and that's where the Thrustmaster systems come in.

Thrustmaster is developed in the States, being modelled after the actual joysticks used in most cockpits. There are two parts to the complete Thrustmaster kit, the Flight Control System and the Weapons Control System. The FCS is shaped like a standard cockpit joystick, with buttons sticking out at every conceivable angle, taking care of firing, targetting, weapon selecting and cockpit views. The WCS is a replica of a full-size HOTAS (Hands On Throttle And Stick), shaped like a standard throttle control and takes care of most of the aircraft's other functions, such as landing gear, chaff and flares as well as the actual throttle commands.

There is a downside to both sticks in that





The Flightstick from CH Products and the Weapons Control System from Thrustmaster. Both are ideal for flight simulators, with the WCS controlling most of the usual keyboard commands. Also pictured (top) is the Flight Control System, the main control stick for the Thrustmaster kit.

they are only compatible with existing flight sims. A set of 10 dipswitches align the sticks to fit games such as Falcon 3.0 or Microsoft's Flight Simulator v4.0. Of

#### Installing a game card

Remember, 50,000 volts running through your body is not an enjoyable experience, so don't forget to unplug your PC before you start messing around inside.



I. Having unplugged the PC entirely and given yourself plenty of space to work in, the first step is to remove the casing from your PC. Despite the fact that most machines have dozens of screws on the back, there are only a few key ones that have to come out. Check your manual to make sure you're not unscrewing the cooling fan. Keep the screws aside safely and slide the casing either forwards or up to remove the lid.



This is the bank of expansion slots for your add-on cards. Select a suitable one for your game card – less obvious than it sounds. In an empty bank of expansion slots as shown here, use the bottom one first, so that in any future add-ons the casing won't be too fiddly. Also, some PCs actually overlap the expansion ports externally, making it difficult to fit the joystick into the port.



Remove the existing backplate, and insert the game card into the slot, making sure everything lines up correctly. Be firm, but don't force it using a rocking motion usually ensures easy fitting. Then screw the backplate into place.

### FIRST STEPS WITH THE PC



course, with only 10 switches, the sticks are only compatible with 10 games. Still, they are 10 of the best flight simulators around (and Flight of the Intruder).

Surprisingly, they're not very sturdy either, despite the fact that the FCS looks like something straight out of Star Wars. The bases for both sets aren't particularly large and don't provide you with much stability, skidding across the desk with the greatest of ease. Still, if you are after the real in-cockpit feeling, you're not going to get much closer. Apart, perhaps, from the flight yokes.

**Bulky realism** 

Finally, for the ultimate cockpit feel, we have the Yokes. These are *not* combat sticks, far from it. You'd be more likely to find one of these babies in a Cessna than an F-16 and if you were to try dogfighting with one of these monsters in your hands, you'll be one of Uncle Sam's statistics quicker than you can say "Was that a missile?"

In truth, flight yokes are bizarre



The Zoomer, the Maxx yoke, the Flight Yoke 2000 and the flying System 2000 – all good examples of the flight yoke.

contraptions, with a horizontal steering mechanism akin to a car's steering wheel and vertical controls that require pushing or pulling the wheel into or out of the main body. This is real flying, Boeing 747 stuff. Dodging missiles, pulling High-G turns or Split-Ss, while not impossible, aren't particularly easy. But plug this into a copy of Flight Simulator v4.0 and you won't believe the effect.

It also works with most driving simulators. Indianapolis 500 was an absolute joy to play with one of these and, for once, I was more inclined to try to win a race rather than cause multiple pile-ups around the third bend (something that every, and I mean every, Indy 500 veteran will tell you is much more fun than actually playing the game).

Yokes are attached to your table through the use of clamps, usually positioned either side of the main body. The only trouble with most of these clamps is that they don't seem to fit to any standard size table. My own desk is just over an inch in thickness and I still had to shove Jetfighter II's manual (a good half inch itself) underneath to provide a decent support.

Under pressure

For those of you wanting a fully realistic atmosphere while buzzing the Golden Gate Bridge in your Cessna, several companies also produce sets of rudder pedals to complement the yokes. These do little other than provide subtle changes to your horizontal position — except in helicopter simulations where they become really useful for quick swings around the horizon — and they don't feel wonderfully

#### Contacts

RC Simulations — (0272) 550900 Euromax — (0262) 601006 Evesham — (0386) 765500 Powermark/Gravis — (081) 951 3355 ISM (Flightstick) — (021) 625

sturdy (being made mainly from cheap plastic) and you often think that by applying anything more than the merest picojoule of pressure, you're going to put your foot

right through it.

As with the yokes, using them on driving simulations is infinitely better, replacing the unrealistic keyboard controls for accelerating and braking. They still give that brittle, breakable feel, but at least it feels pretty good when you can slam on the brakes in one of these games for real.



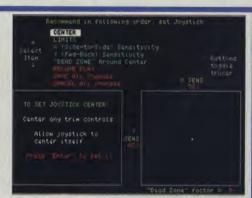
The Maxx yoke and pedal system. Designed for the ultimate in cockpit realism.



With the innards taken care of, just slide the external case back on and replace the screws. Once again, check that the case doesn't interfere with the actual joystick ports. If so, you'll have to choose another slot. Your new interface should fit square and snugly into its slot, without any bowing or sagging.



Now that everything's back in place, just plug in your joysticks and away you go. It's a simple thing to overlook, but make sure you know which slot is port I and which is port 2. Two-player games can get pretty confusing if you don't know who is controlling what. The screws aren't essential for making the connection, so you may want to tighten them only when you know the joysticks in working order, but they will help secure the joystick to its interface.



The normal procedure for correctly calibrating your joystick is to centre the stick and press button one, then move it to one of the corners and press the second button, then move it to the opposing corner and press one of the buttons. The more complex screens, JetFighter 2 here, also require you to move the stick all the way around its outer edges, to set the amount of sensitivity and dead zone, used to mask out small vibrations to stop the stick from accidentally moving the plane.



SSI's latest role-playing adventure boasts stunning digitized art and animation, a dynamite soundtrack and colorful sound effects. It's fast and easy to play, thanks to point-and-click icon-based commands, graphical inventories and conversation interface. As you search for the way to prevent an ancient prophecy from coming true, you'll cast magic spells, solve puzzles, explore dark dungeons, battle monsters and encounter the DAKKIN OF THE long-dead. All of which you'll find quite uplifting.



A SINGLE-CHARACTER ROLE-PLAYING ADVENTURT!



U.S. Gold Ltd., Units 2/3 Holford Way, Holford, Birmingham, B6 7AX.

Screen shots are only intended to be illustrative of the gameplay and not the screen graphics which may vary considerably between different formats in quality and appearance and are subject to the computer's specifications.

1992 Strategic All rights

PC DUE SUMMER 1992 AMIGA DUE AUTUMN 1992

**IBM** AMIGA Clue Book

available!

STRATEGIC SIMULATIONS, INC.

LEGEND OF DARKMOON (EYE OF THE BEHOLDER II) • SHADOW SORCERER TEL: 0839 654 139

HILLSFAR . DRAGONS OF FLAME . HEROES OF THE LANCE TEL: 0891 442 025

CURSE OF THE AZURE BONDS . POOL OF RADIANCE · CHAMPIONS OF KRYNN TEL: 0891 442 026

BUCK ROGERS • SECRET OF THE SILVER BLADES • EYE OF THE BEHOLDER TEL: 0891 442 030

OPERATION STEALTH • ANOTHER WORLD • CRUISE FOR A CORPSE TEL: 0839 654 284

LUCASFILM HELPLINE • LE CHUCKS REVENGE (MONKEY ISLAND 2)
• INDIANA JONES • ZAK MCKRACKEN • MANIAC MANSION •
LOOM • SECRET OF MONKEY ISLAND • BATTLE OF BRITAIN
TEL: 0839 654123

INFORMATION LINE: 0839-654124



Service provided by U.S. GOLD LTD., UNITS 2/3, HOLFORD WAY, HOLFORD, BIRMINGHAM B6 7AX.
If you are under 18 please get permission to use the telephone. Calls cost 36p per minute cheap rate, 48p per minute all other times.

## Reviews

alcon 3 has finally made it into the shops, without one or two of the bugs, so, as we did with Ultima VII last month, we've taken a good, long second look at it. On the subject of second looks, Steve Meretzky fans will be pleased to see that Leather Goddesses of Phobos is back!

#### Alternatively

We believe games should be placed in context. If you like the sound of Epic, for example (see page 48), you'll be interested in other games of a similar style. In all our major reviews, we offer comparisons with other titles on the market, some of which may be more suited to your tastes.

#### Hardware requirements

A succinct and precise list of the hardware features required by each game. If you need to know how much hard disk space a game will take up and how many floppies you'll find in the box, this is where to look,

> Our no-messing, no-guessing guide to the hardware supported by the game tells you exactly what graphics and sound cards are supported. And if there's anything unusual about the specs, or any additional information, we'll note it along with the hardware require-

#### Two minutes

The Two Minutes panel is the nearest thing to seeing the game in action, as we take you through selected screens and note the gameplay required.

You'll find our reviews concentrate on the atmosphere generated by the program and the gameplay involved, rather than regurgitating reams about the background story. You can always read the novella when you buy the game – our job is to help you decide whether you want to buy it in the first place.

#### Our rating system

We're as fed up as you are of overcomplicated rating systems that mark everything from packaging to intro sequences and tell you nothing about the real quality of the game. That's why we've made our rating system simple and

consequently useful. We give a single mark out of 10, based on the game's overall quality and how enjoyable it is to play.

You'll find the marks in PC Review are frequently not as high as in some computer games magazines. This is deliberate - not everything is worth the equivalent of 80 per cent. As a general yardstick, anything which gets more than five is, in our opinion, an above average game; seven is good, and eight or over is excellent.





Lure of the Temptress. Enter a brand new world thanks to Virtual Theatre on page 36.

ROLE PLAYING GAMES Wizardry VI US Gold	42
ACTION GAMES Epic Ocean	48
European Championship 1992	68
ADVENTURES  Lure of the Temptress  Virgin Games	36
Leather Goddesses of Phobos 2  Activision	52
Eternam Infogrames	58
SIMULATION NFL Football Konami	62
Heroes of the 357th Electronic Arts	64
Falcon 3.0 (Update) MicroProse	73
STRATEGY Carrier Strike US Gold	70
CD-ROM TITLES Virgin Compilations Virgin Games	56
MicroProse Compilations  MicroProse	56
THE GAMES THAT GOT AWAY A quick round up of everything that we promised you	<b>74</b>

month but failed to deliver due to circumstances beyond our

control.

#### **SOFTWARE** REVIEW

■ Lure of the Temptress ■ Virgin ■ (081) 960 2255 ■ £35.99

t's been said that there are no original ideas left in computer games any more and to a certain extent that's true. However, there are plenty of new ideas, evident in recent months with Shadowlands, Ultima Underworld and Another World. Even though these games all contain hackneyed plots and well-used scenarios, they score by having plenty of originality in their designs, with systems that make for enjoyable gameplay. Now there's another new system for us to dabble with and jolly nice it looks too.

The system in question is called Virtual Theatre, 'virtual' taken from the fact that it creates another world for you to exist in and 'theatre' because it's designed to tell a story using actors, props and scenery. VT's first title, Lure of the Temptress, has received a fair bit of coverage across the board during its development stages and even though it looked like it was never actually going to appear, it's finally made it to the review stage

and is looking every bit as good as it promised.

Virtual Theatre attempts to create a believable environment for the player to adventure in. It does this by designing systems for sophisticated character interaction and object manipulation, then designing the story to fit, as opposed to the other method employed by most adventure game designers — ie, creating a story then working it into a game.

What's more, it works. Just strolling around the town of Turnvale (I'll come to the actual plot in a minute), you really get the sense that everyone is leading their own little lives and that you are merely a passing visitor rather than the centre of attention that is usually the case with most other adventure games.

The plot is little more than the usual fantasy fare, but is boosted by the overwhelming performances of the central characters (this job starts to sound more and more like Barry Norman's with every passing review). Ratpouch, your trusty

Lure of the

The classy intro sequence tells how Diermot found himself in the unfortunate position of a skorl prisoner.

sidekick, provides a good stream of humour from his (extremely) bad jokes to his attempts to get served while in the pub. You can often just forget about playing the game, choosing instead to watch him at work.

#### A soldier of misfortune

As with all good fantasy plots, the hero is an unwilling one. A young lad is caught up, by accident, in a battle between a king's army and a race of foul creatures. The youngster is struck about the head at an early stage and falls unconscious, to awake trapped in a prison cell. This is where the player comes in, first having to work out an escape plan from the cell, then from the prison itself. Once free, you find yourself in the village of Turnvale, recently overrun by the creatures (known as Skorl), under the guiding hand of their evil mentor, the temptress of the title. It's up to you to find a way to free the village and stop the Skorl before they can expand their rule further.

To help you get around in this world of adventure and intrigue, there is a very simple (and effective) control method, utilising both mouse buttons to optimum effect. Moving is simply a case of clicking on an area of the screen not already occupied (there's a clever routine called autorouting at work behind the scenes to make sure that everyone walks around without bumping into each other). Menus are called up with

the other button that contain relevant verbs for the particular situations. It's all very straightforward, easy to pick up and well explained in the manual. Speaking of the manual, it's certainly one of the better examples of late, being written in the style of Ratpouch explaining the game to you. It's clear, very funny and does a good job of describing the different aspects of Virtual Theatre to give you a good idea of what to expect.

In fact, everything about Lure is professional right from the start, with the very classy intro sequence describing Diermot's unfortunate fate in a glorious succession of animations that on the whole use no more than three colours. The pictures shown here don't really do justice as you have to see it moving to appreciate it. The VGA graphics do a marvellous job of conveying mediaeval life, akin to a good set in a play, and the sprites are just detailed enough to provide them with some great mannerisms and expressions. Take the shopkeeper, for example. When he's with customers he'll occasionally shove his glasses back up his nose, but catch him when he's alone and he'll probably be pulling faces at you or doing some strange kind of action with his arm which I won't even try and describe.

The sound works well too, adding to the atmosphere with all sorts of background effects and tunes that fit the various stand-alone moments well. The Roland-generated music is particularly impressive, especially during the intro, starting

Creating a believable setting in an adventure game is one of the trickiest parts to get right. Revolution Software got round that problem by creating an adventure around a system

As characters are allimportant to Lure, so conversation becomes a fundamental tool in completing the game. In an area full of people (such as a pub or a market square) you'd expect plenty of conversations to be taking place, and indeed they do. Whenever you see a speech bubble above a character's head it means they are chatting away. If you yourself say nothing to interfere and are standing in the vicinity, you'll probably be able to hear and read what they are saying.

For your own
conversations Lure uses
the tried and tested
multiple choice system.
Select a question or
response from the list and
try to gain whatever
information you require.



with a slight pace then slowly building to a massive crescendo for the main battle. It's amazing how much sound adds to a game (I have in fact played two versions of Lure, one with the sound implemented and a pre-production version without). Playing without really takes something away from the whole ambience of the game — if you haven't already updated to a soundboard I'd strongly suggest doing so.

#### It's never enough

I can see Lure of the Temptress in a similar light to Another World, in that the hardened adventurer isn't really going to be stumped for too long and may end up finishing the whole game fairly quickly. The village sections do provide some challenge, but as an adventure I can't help wishing it had been both longer and tougher. Having said that, I would wholeheartedly recommend it as a beginner's adventure as it introduces you to the genre well and is an incredibly good advert for what this type of game can do. If only it did more.

An example of the unrealised potential of Virtual Theatre comes from the manual of all places. A section in the game hints chapter reads: "If you're talking to someone and annoy them in some way, it might not end there — they may meet



Ratpouch is more than just a constant companion, pesky sidekick and humour merchant, he can be useful too. The tell command doesn't work with many characters but a couple, Ratpouch included, will follow your commands (anything from one to a string of six in one go).

#### As with all good stage productions, the cast is everything



Diermot

The unwitting hero of the piece. Cast into the midst of battle, knocked unconscious and taken prisoner, Diermot has to escape from his confines, find out who's controlling the skorls and rid the village of Turnvale from their evil influence.



Ratpouch

Diermot's sidekick, confidant and all round servant. Also captured by the skorl, the two meet in the prisons and plot their escape.



Selina

Leader of the skorl and a mean and vicious sorceress. With her army to support her she intends to expand her rule to the rest of the country.



The skorl

An evil race of creatures led by Selina into the village of Turnvale where they now plot their campaign to rule everything.

someone else on their travels and relay the incident: 'That Diermot,' they could say, 'there's something extremely fishy about him if you ask me'... Rumours and gossip can travel like wildfire in a village like Turnvale." Theoretically this is possible with the VT technology, but unfortunately there isn't all that much evidence of it in the game. On the numerous occasions where my curiosity got the better of me and I just decided to follow a particular character around the village, they always stuck to pretty much the same route. The blacksmith would hammer at his anvil, leave his shop, walk around the town until he arrived at the inn, buy a drink, talk to the barkeep, return to his shop and start the whole routine over again, taking exactly the same routes. His speech would change for about four or five turns but then that too would start to become repetitive.

Don't get me wrong, I'm not faulting Lure for this. It would, in all fairness, be nigh on impossible for a program to provide an endlessly differing routine for numerous different charac-

#### TWO MINUTES OF STAGE PLAY

Diermot starts the game imprisoned in a skorl jail cell, with little chance of ever seeing daylight again. With just a straw bed to lie on and a burning torch to see by, he discovers a small crack in the

Looking through the crack, he sees a torture chamber with a small peasant lad tied to a rack. The Skorl guard patrols the area from cell to cell. As he's just left the torture chamber, he's probably coming back to harass Diermot.

An idea strikes Diermot. Before the guard manages to reach the cell, he pulls the burning torch on to the straw bed, setting it ablaze.

When the Skorl arrives, he instantly goes towards the bed to check it, allowing Diermot to slip outside.

Before the Skorl gets a chance to respond, Diermot has closed and locked the door, trapping the hapless creature inside. Chained to the wall is another poor wretch on the verge of collapse. He begs for water



#### he main stars of Lure of the Temptress are:

#### Luthern

The town blacksmith and unofficial leader of the resistance movement. Once free of the cells, Diermot has to contact Luthern for information.



#### Goewin

Imprisoned by the skorl's leader for her trouble-making ways, Goewin needs to be rescued by Diermot before the townsfolk really begin to trust him. Once freed, a relationship forms between the two.



#### Gwyn

The town gossip can be a bit of a pain at times, especially when you're in a hurry, but in her meaningless waffle a pertinent clue or two can often be found.



#### Mallin

A shady type more interested in money than morals. Mallin doesn't see the skorl invasion as a problem, more of an opportunity.



ters and to simply save disk space, memory and processing time you have to put a loop into the characters' actions at some stage. On the whole Virtual Theatre provides a realistic atmosphere and a believable setting, it just lacks two important things. A time structure and individual privacy.

That there is no feeling of night and day in the village of Turnvale takes something away from the overall feeling of realism that developer Revolution Software has worked so hard to maintain with the characters, the settings and the storyline. The endless loop of working, walking, drinking, walking and working would have been much more plausible if sleeping had been included in there at some point (preferably after the drinking stage). Also the fact that almost nobody seems to have a home to go to doesn't help, meaning that you can follow someone constantly without them ever stopping to ask you why you've been shadowing them for the past day and a half.

Realism is also stretched in a couple of places relating to

conversations. While there's nothing wrong with the system used (the Monkey Island series is a testament to this), conversations can occasionally be repeated when locations are revisited. From the player's point of view this is understandable when you want to ask someone about already revealed information, there's no reason why you shouldn't be able to. Where it goes wrong is when the NPCs (non-playing characters) say exactly the same things back to you, as if it's the first time you've ever spoken to them about the topic. Obviously there are limits to the amount of text a game can contain, Lure actu-

ally contains over 2,000 separate sections of character speech,

#### What could have been

so on the whole it's pretty much forgivable.

Potential is the operative word when describing both Lure of the Temptress and the Virtual Theatre game system. The room for growth is amazing, in that the technology can be applied to almost any story genre with very little change. Just looking at some of the program's routines in action gives you some idea of how much is possible from the system. Take the 'look through' command, for instance. Tell Ratpouch to go into the village shop and ask the shopkeeper for something, then watch him do it by looking through the window. Imagine that routine applied to a detective story, convincing the young maid to go and ask the butler about the murder, because he doesn't like you and won't tell you anything, but is very fond of the girl and would tell her. You then watch from afar and gain the information needed.

I can't help but imagine existing games using Virtual Theatre — Cruise for a Corpse, for example, would have been perfect for the style, as would Sierra's Colonel's Bequest or a graphic version of that all-time classic Infocom adventure Suspect. Almost any game that relies on good character interaction to carry the plot would suit Virtual Theatre to a tee.

Lure has other areas that, while not really qualifying as mistakes or bugs, don't quite work as tidily as they could have done. A prime example is the semi-artifical intelligence attributed to each of the characters when it comes to movement — autorouting. Each character can sense when they are obstructing another and will move out of the way to let others pass. It almost works except for certain occasions when the character tends to move so far out of the way it would have been less bother for him just to have barged through. It doesn't

The next room contains a barrel full of water, a bottle to carry it in and a very handy knife. Looking through the grille, Diermot spies the trapped skorl. Concentrating on the prisoner, he fills the bottle and hurries back.

Giving the man a quick drink, he urges Diermot to deliver a message to the town blacksmith. Something about a girl in danger. Asking for an escape route, the prisoner manages to say something about loose bricks, then dies.

Remembering the poor soul on the rack, Diermot tries to find the torture room, hoping that another person might help to find a way out. He finds him tied down to the rack and after freeing him, learns that his name is Ratpouch and that he'll help in any way he can. Asking Ratpouch for advice is like asking the village idiot to discuss quantum physics — quite pointless. He does, for all that, lend enough weight to the problem and, when push comes to shove, manages to free the duo from the cell.





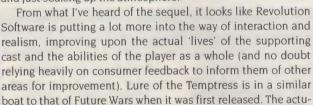
The village shop, as seen from outside. One of the innovative parts of Virtual Reality is the fact that life goes on no matter where you are or what you do. The conversation taking place between Gwyn and Ewan in the shop has nothing to do with your quest but adds to the feeling of realism.

matter so much when you see NPCs doing this (although it does blow small holes in the carefully woven tapestry of realism that VT has been trying to weave together), where it starts to irritate is when Diermot starts doing it, as you have no way of stopping him until he's decided for himself he's gone far enough! When you're trying to follow someone and you end up losing them because of such a frustating situation, it's extremely annoying.

#### Just the start

Lure of the Temptress is a remarkably enjoyable (if a little short) adventure romp though tried and tested themes. It scores highly in the areas that it promised it would during development and doesn't have all that

development and doesn't have all that many faults to weigh it down. What I liked most about the whole game was that you were hardly ever forced to follow a set route to complete the thing. I found it quite refreshing to be able to just wander around the town, chatting to the locals, following people as they went about their errands (despite the loops) and just soaking up the atmosphere.



#### REQUIREMENTS

Lure takes up just over 2Mb of hard disk space, but seeing as it possible (although not recommended) to play directly from the floppies, finding storage space shouldn't be a problem. EGA versions are sold separately and are actually pretty good, with very little colour clashing and good sprite definition.



# ALTERNATIVELY...

King's Quest V

King Graham of Daventry? Kidnapped castles? Talking owls? Say what you like about Sierra games, when it produces a game set in the fantasy genre, you can be sure we're talking about children's fantasy, not JRR Tolkien or Raymond E Feist.

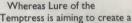


The latest King's Quest chapter has been pretty well received across the board, graphically it's better than it's ever been and technically you can't really complain, but for good, solid, believable stories you're better off with the Virtual Theatre stable.

## Monkey Island 2: LeChuck's Revenge

Lucasfilm, £39.99

Proving that Americans do have a sense of humour is Lucasfilm's very successful Monkey Island series. Both the original and its graphically superior sequel are packed full of jokes, puns and humourous satire and are both very enjoyable games.





blievable world of real characters doing real things, Monkey Island is more like the kind of thing you'd expect from a Hollywood blockbuster.

#### Cruise for a Corpse

Delphine, £30.99

Closer to home (in every sense) is Delphine and its masterful Cinématique series. Future Wars was impressive enough, if a little short, and Operation Stealth was fun but more 'American' in style, but Cruise for a Corpse proved that good adventure games



could involve a good degree of thought.

Both Cruise and Lure play in a similar style, with Cruise behaving more like a 'real' stage play and Lure like a 'real' world. Cruise is also a lot tougher (almost to the degree where it puts you off) and a lot more likely to last longer, but doesn't have the same friendliness about it that Lure gives you.

#### **Ultima VII**

Origin, £39.99

Believability and storytelling has always been at the forefront of Origin's Ultima series, and nowhere is it more important than in Ultima VII, mainly because it almost manages to make up for the bugs contained in this ante-penultimate Lord British adventure.



Ritual killings, drug abuse and

technological advancements in society all play a part in this tale of the Avatar, Lord British and the gang. As always atmosphere is immense but it loses something in its size, not being too small, instead over-stretching itself.

al game, while enjoyable, shows that much more is possible and is worthy of purchase as the first of what looks like being a truly classic collection.

**PAUL PRESLEY** 

THE BITMAP BROTHERS



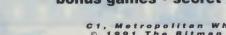
They've nicked his bike.
They've whipped his helmet.
This time they've gone too damn far...

#### NO ONE MESSES WITH THE BITMAP KID



stacks of levels • heaps of weapons • swarms of intelligent nasties bonus games • secret rooms • loads and loads of power-ups





TA BITMAP BROTHERS C1, Metropolitan Wharf, Wapping Wall, London E1 955



#### **SOFTWARE** REVIEW

- Wizardry VI
- Sir Tech/US Gold
- (021) 625 3366
- ■£37.99

ollowing the UK distribution deal with US Gold, the Wizardry series of role playing games is set to become officially available in this country for the first time. This means that role-playing afficionados can look forward to the appearance of Wizardry VII – Crusaders of the Dark Savant later in the year, but in the meantime its predecessor, Wizardry VI – Bane of the Cosmic Forge, is scheduled for imminent release. Bane is acknowledged as a classic in the US, but has only been available in the UK via import specialists until now.

It is somewhat unusual to find a role playing game like this, attractive to both enthusiasts and beginners alike

# WIZARDRY VI

## BANE OF THE COSMIC FORGE

Bane is simply and quickly installed on a hard disk, occupying a paltry 2.5Mb. The comprehensive 120 page manual is virtually a beginners' guide to fantasy role playing and covers all aspects of gameplay. For example, with character creation it details the extensive choice of the various professions, race and attributes available. Unlike its competition these choices have a subtle effect on the players' skills, the combination of which can alter the course of the game. The statistics are impressive – 11 races, varying from the usual human, elf, dwarf and hobbit to the more unusual acid-breathing dracon and the half canine, half human

A professional approach

rawulf.

Professions are also numerous, 14 in fact, from the usual fighter, mage and priest to the mental magic of the Psionic and the female warriors of the Valkyrie. Even though the character creation is quick and pleasantly uncomplicated it manages to maintain a

tain a very wide variety of combinations.

It is likely, however, that as you become more developed in the skills of the game, you will learn that you have made some initial errors which, although not fatal, may result in your starting with a more balanced party, or choosing a more harmonious blend of individual characters. Generally the players are either magic or non-magic users.

their part, each having their own skills and even academic specialities.

Thieves and rangers also play

Having constructed the party the fun really begins. You start by not really knowing where you are, or why you are there! You seem to be in a huge deserted castle that has suffered some terrible catastrophe. Everywhere you find the remains of a once vibrant household, with clues unfolding of a seemingly cursed king and queen, a

love-child of the castle's priest and of some pretty dark

#### TWO MINUTES OF CHARACTER STRENGTHENING

The temple of Ramm will be your ultimate destination.

From a first person, eye level view, the landscape is criss-crossed by watery channels and gorges. Give those bats in the belfry a real headache – even if fighting in the game can be rather long-winded.

Can you stand the suspense of walking along the very edge of darkness?













This daunting looking figure is Lord Daimyos, the top samurai. You'll encounter him in the Temple of Ramm. He's particularly tough (162 hit points), but you can look forward to a massive 53,500 experience points if you manage to defeat him. Be careful though, he's often accompanied by about a dozen ordinary Samurai, although you should find these easier to defeat as they possess a measly 50 hit points apiece. Another creature to watch out for in the temple is the psionic Mindflayer. This mind blasting beast requires some cerful tactics if you are to defeat it.



Also tough to beat are the Giants. These can absorb 200 hit points of damage each, but the reward is 23,000 experience points. Watch out for their poison!



There are about half a dozen fountains in the game and most of them have beneficial effects like restoring strength and magic polints, others poison you.

goings-on. Once you have solved certain quests and problems you will learn of the Cosmic Forge itself.

#### Mightier than the sword?

This item of the title is an incredible celestial piece of hardware. Whatever the writer pens with this item becomes true! But there is a downside, the writer becomes subject to certain dark forces and influences: to tell more would spoil a detailed and well thought-out plot.

The Bane of the Cosmic Forge includes the mandatory castle and dungeons; it also has a belfry and towers, various

precipices, ledges to fall off, a massive gorge with many bridges and passes, dwarf mines, a wizard's cave and, probably the best section in the game, a superb underworld complete with River Styx, Charon the boatman and Isles of the Damned and of the Dead.

There are lots on non-playing characters, including eager to trade shopkeepers, dwarf blacksmiths and half-naked Amazonian female warriors! This problem solving forms an integral part of the Wizardry series and Bane involves mind-stretchers using a multitude of items including drawbridges, altars and even a catapult. Character management and inventory control

In Wizardry VI, a creaking door is bound to conceal some hideous terror behind it ... ... such as a serious set of mystic head bangers, about to get 'nuked'. All sorts of vermin can and will attack you with no apparent warning.

And the grim reaper awaits those who fail, in this suitably dark and macabre end-screen.









# WIZARDRY VI — BANE OF THE COSMIC FORGE



These Strangler vines are found on the first two levels and are easy to beat despite spitting poisonous venom. There are also fuming and creeping types.

is a very important aspect of the game, especially in the later stages.

Previous criticisms of the Wizardry series have included the lack of any real plot and of its 'linear' feel – levels just piled on top of each other – but these problems have been satisfactorily addressed, and more than adequately, greatly improving the degree of character interaction and enjoyablility.

The game is indeed massive, with weeks or months being necessary to complete the various tasks leading to the inevitable confrontation. Playing time is estimated at 240 hours plus. The product also benefits from 'dialogue' and location descriptions, reminiscent of Infocom at its best, and the digitised 'sound' is really excellent, not needing a soundboard to achieve a very good atmosphere. Atmosphere is the right word as the sounds produced are not a repetitive, annoyingly tacky tune. Instead you hear footsteps, buttons being pressed, echoes, the flow of underground water, the magic of spells, yells of pain and so on. All these from the PC chip alone – and without greatly affecting the speed of play.

#### Problems, problems

The game revolves around exploration and combat, but also has a wide range of problems and puzzles that must be solved. The nice aspect of the puzzles is that although some are taxing, they are logical – I have a massive dislike for the need to ring a helpline or manufacturer with a query to be told "well you stand on your left leg and put the third hedgehog in your right ear". All problems can be solved sensibly – often by stopping to have a cup of coffee or a bath (a necessity occasionally dur-

Rats are one of the easiest Beast types to beat. They have only 2 to 4 hit points each and are worth a measly 150 experience points. They can occasionally be rabid however, so don't get too complacent.



#### General advice

Save game often — restoring before a difficult fight or before opening a chest may improve your position.

Include a dracon in your initial party; his fire breathing is a useful early weapon.

Don't forget to read your books.

Not all weapons and armour are good news.

Not just keys open doors.

Go shopping regularly to manage inventory.

ing the weeks or months involved) and cogitating.

A very good touch, in particular for newcomers to this genre, is that 'essential' items cannot be dropped – you can't therefore accidentally or unknowingly ruin the game by arriving at the end game after weeks of effort to find that by disposing of the "broken dwarves' widget screwdriver holder" (normally in the first five minutes) you cannot complete the game and have to start again. However, a balance is kept so that you can drop useful items that can result in some hard work to recover your position – c'est la guerre!

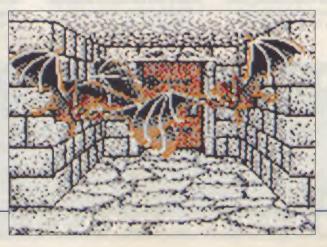
Mapping is certainly essential in parts, if not in total. Auto mapping is not part of Bane (but is a feature of Crusaders) so its a pen and paper job. The combat system is simple but varied, different weapons and spells having different results and combat situations are both at fixed locations and of a varied nature. There are over 400 individually researched pieces of armour and weapons. There is a huge list of monsters and opponents each requiring different approaches and tactics and the scenes are well animated with ghosts materialising from walls, bats flying, rats jumping and sirens wailing. You almost start dodging the spells as fireballs and particularly nasty items are propelled orally at you by half-dead or all-dead creatures. Don't worry, you can get hold of a sort of magic mouthwash later on.

#### A matter of timing

The combat system is 'phased time' as opposed to 'real time' so all those, like me who are not star performers in the dexterity stakes will appreciate this aspect.

The magic system sets the standard for others. As characters gain experience either by hack and slay, achieving quests or exploring new locations they become promoted. Certain character points are automatically allocated — others must be

There are five types of bat in the game. Ordinary bats and black bats are the easiest to destroy, but things get slightly tougher with vampire bats, while indigo bats and mounstrous bats can make life very difficult indeed.





#### EYE OF THE BEHOLDER II

SSI/US Gold, £34.99

A generation ahead of Bane with very impressive graphics and smoother movement. Rather more linear in plot than Bane and virtually no character development. 'Real Time' with almost arcade-standard combat, but the best SSI has released.



#### MAGIC CANDLE II

#### Mindcraft/Electronic Arts, £34.99

Disappointing sequel to classic RPG. No mouse support is unforgivable, and the interface is unwieldly. Good plot nevertheless, but only really for die-hards or lovers of nostalgia. Cannot really compete with any of its stable mates here.



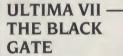
#### **ULTIMA UNDERWORLD** - STYGIAN

#### **ABYSS**

Origin/Mindscape, £35.99 Brilliant new release from Origin. New gaming engine with 'virtual reality', very smooth and atmospheric. Plot is not its

strongest point, nor is character

development, but great fun. Medium dexterity required, goes more head-to-head with Eye of the Beholder, but you need a 386 with 2Mb memory, and 13Mb disk space! VGA graphics only.



Origin/Mindscape, £39.99 The biggie of the bunch. Huge hardware requirement 386DX or 486 ( will run slowly on 386SX), at least 2Mb memory (4Mb recommended



for slower machine) and hard disk space of 21Mb! Superb graphics, with full mouse point-and-click interface. Greatest textual content - more than the rest put together! Full screen graphics, all the old plot lines, pals and locations, plus another mind-boggling story. Also, tragically, some silly bugs (see Issue 9) which make it pretty

allocated by you, do you want to improve your characters swordplay, or perhaps his skill with wands, or with artefacts? Furthermore, upon promotion you will have a selection of spells you can take.

The graphics are only EGA, but really show what can be done with this graphic standard, while equally showing that

#### Since PC time began...

Despite their current sophistication, role-playing games actually made an appearance on the very first PCs. These were games like The Temple of Asphai, which were generally converted from programs originally designed to run on an Apple II. Unlike today's audio-visual extravagnazas, these original RPGs were mainly text-based with a stark overhead plan-view of each location and simplified graphics representing the hero and monsters!





What lies behind the door? Doors play a big part in Wizardry. Certain doors need keys, some have locks that can be picked. You can also try to force doors.

flashy graphics do not on their own make a good game. Sound boards are supported as is a mouse.

The slightly unwieldly interface, eg, to use items like keys, or rather different keys requires a long series of key strokes, is one of the few criticisms to be levelled at the game. Some fights are overlong due to being unable to 'lose' quickly. Finally, and this is really nit-picking the routines, to rest may require several attempts to achieve full health. But taking all these minor criticisms into account and comparing with SSI Gold Box products, or even Magic Candle II, the interface is still very smooth.

In summary this is a gem — simple but with a wonderful depth of play. It is not for the faint hearted, but it is both a must for seasoned role players, and a very good introduction for newcomers to this type of product. It manages to combine the right balance of storyline, interface, and graphics that together constitute that rare quality of 'playablity'.

Where it is overtaken by more recent RPGs (see Alternatively panel) is in presentation. Those graphics are EGA, not VGA, and look rather bitty in comparison to, say, Ultima Underworld and the rather cumbersome interface has been superseded by a number of games - matters that

have all been addressed in Wizardry VII.

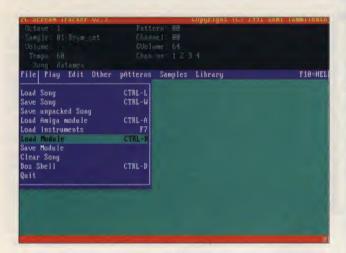
Every big software house nowadays seems to be getting on the RPG bandwagon — Wizardry provided the inspiration for most of them, Bane of the Cosmic Forge is a good example of the best of fantasy role playing and is well worth a look, especially if you do not have access to today's 'minimainframe'. **ROBIN MATTHEWS** 

#### REQUIREMENTS

Bane of the Cosmic Forge is contained on two 720K disks, or five 360K disks. The game can be played from two floppy drives or via a hard disk. Once installed it take up some 2.5Mb of space and needs 560K of free RAM with a 640K machine. CPU speed is very acceptable from 8Mhz up.









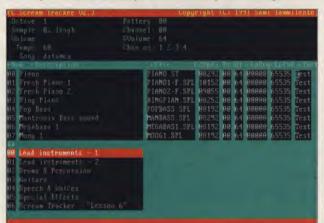
# Scream Tracker

since the PC began life equipped with nothing but a piezo-electric bleeper, it is hardly surprising that it has taken over a decade for the machine to attract musical software. Nowadays, the PC boasts a wide range of add-on sound contraptions, some of which are powerful enough to turn it into the best sounding micro on the market. Scream Tracker enables you to mix digital samples to produce complete soundtracks. Each song can use up to four voice channels and 31 instruments. These are selected from a possible 99 instrument libraries, each of which can store 100 instruments, giving you a massive choice of 9,900 instruments.

Scream Tracker comes supplied with a selection of over 150 pre-recorded instruments ranging from piano and flute to a frog croak and hand clap. To create your own instruments you will need a sampler and suitable sampling software, or you could scour the PD libraries for disks of pre-recorded samples.

Each song is constructed as a series of patterns, with a maximum of 64 per song. This is not that limiting, since most songs repeat, with slight variation, just a few phrases. Sounds can be entered at the appropriate place in each pattern by hand or played in real time using the computer's keyboard like a piano keyboard. This takes a little getting used to, because you first have to familiarise yourself with the layout thoroughly. The keyboard effectively covers two octaves, although each sound can be played over four octaves. The sounds can also be faded or you can add vibrato, tremor, or pitch bend. Cutting and pasting sections of patterns is easily achieved, making it simple to produce variations on an existing pattern.

Output is via the PC speaker, Covox Speech Thing, Sound



Blaster, Sound Master II or the Datamex Sound Board, which is included with the software. The PC Speaker option is only really useful if you don't have a suitable sound board, or a hi-fi to connect the Datamex board to, but if you do use it you'll be presently surprised at the results. The Datamex board plugs into a parallel printer port and terminates in two phono plugs for connection to an external amplifier. This is a perfectly good solution if you don't possess a sound card.

As for compatibility, Scream Tracker can play songs and samples created with Noise Tracker, Sound Tracker and Pro Tracker on the Amiga. Two excellent manuals explain how to convert these for use with Scream Tracker. The software also has a couple of sample tracks created on the Amiga, and some

Scream Tracker originals ranging from Kylie
Minogue through new world to rap.

Once you have created a song, you can play it independently of Scream Tracker by using the player module. This enables songs to be played from the command line, and once it has started you can optionally return to DOS and run other commands while the

song plays in the background. I did have trouble with this, as the computer tended to hang rather frequently while the song was playing. It is not, at present, possible to play Scream Tracker songs from within other programs, which is a shame, as it would otherwise be a very attractive package for software developers. As it is, Scream Tracker is an excellent, comparatively cheap way of turning your PC into the equivalent of a sampling keyboard, digital mixer and recorder,

but look out for the stereo version in July.

LAURENCE SCOTFORD

#### REQUIREMENTS

You'll require DOS 3.2 or a later version and a machine that runs at 10 Mhz or faster. The software is supplied on three high density disks (both sizes are included) and can be installed to a hard disk or blank floppies. Works with Covox Speech Thing, Sound Blaster and Sound Master II.









t seems that most major development teams have to have one before they're taken seriously. Novagen had one, Argonaut is still having one and so is Psygnosis, and Glynn Williams certainly looks as if he might be having one. I'm referring to those giants of computer entertainment, those semimythical 3D extravaganzas that are always going to be the best thing since sliced polygons.

The criteria for what I'll call, for convenience, mythoware is that it must be at least two years in the making; it must be advertised at least six months in advance of its launch; it must generate a whole series of previews during the year before its actual release, showing stunning screen shots which bear very little relation to those in the finished game; it must be accompanied by claims that it is a landmark, nay, nothing less than a revolution, in the field of 3D computer games; and finally it must be released several months or years late, not so much to a triumphal roar as an anti-climactic and faintly embarrassed silence.

Now the lads at Digital Image Design, who (undoubtedly being Ken Dodd fans) like to be known as the Didy Men, have completed their very own piece of mythoware, the aptly named Epic. Digital Image Design, you may recall, first hit the headlines with F-29 Retaliator, which was also hyped to oblivion by Ocean and then suffered from an unbelievable lapse of quality control when it was released with more bugs than your average swarm of locusts. Unfortunately Epic also has the distinct odour of unrealised potential about it, but it manifests itself in a different way.

#### The greatest show on earth?

Epic's main selling point has always been the quality of the 3D graphics. The quality of the 3D graphics is indeed still the main selling point of Epic, which makes a lot of sense because it is the only reason for spending your hard-earned cash on the game. While Epic's graphics don't need the use of buzzwords like 'Bezier curves' and 'texture mapping' that crop up all too frequently in descriptions of recent 3D games, they do command the use of the words 'smooth' and 'fast' which, as far as I'm concerned, is what 3D should be all about.

What is rather sad is that the 3D is shown to best effect in the intro sequence and the animations between missions. Interspersed as they are with glorious two dimensional artwork and accompanied by a good, if hackneyed, rendering of Holst's Planet Suite, I'd have to say that that this has easily the best intro sequence that I've seen in a long time. The same is also

Years in the making and so much promised that it's become almost legendary before its release - Laurence Scotford looks at how Epic fulfils expectations

This is the whole reason behind Epic – a sun going supernova. Your civilsation has only a limited time to find a new home.

true of the general presentation between missions and at the end of the game. The animated sequences and mission briefings are very atmospheric and really do carry through the storyline quite well.

While we're on the subject of storyline, playing Epic is a bit like playing another game called 'spot the inspiration'. Elements borrowed from popular television science-fiction series are fairly obvious. The general plot, which involves a mass exo-

#### Epic – a tactical guide

Because of the poor documentation, Epic can be a trifle confusing to begin with. So, to get you into the game quickly here are a few tactical tips.



I. On the surface of planets most major installations are linked by these tracks. Once you find a track just keep following it until you come to a target.



2. There are occasions when it is not entirely clear what your major targets are. The easiest way to find out is to blast everything in sight and watch your mission completion

percentage. If it only creeps up by one or two per cent then ignore that object in future. If it advances by 10 per cent or more then you've found one of your major target types.



and slower birds. These take more firepower to destroy but they are easier to hit and they give you a much higher

3. In space

battles, try and

avoid the smaller, faster craft and

go for the heavier

score and mission percentage.

dus from a doomed planet and a consequent war when the convoy passes through the territory of another race, bears more than a passing resemblance to that of Battlestar Gallactica, and, if anyone from Paramount plays this game, they will find much that seems familiar, what with the manual containing a drawing of a ship that looks much too similar to the Klingon ship from Star Trek and, to add insult to injury, featuring a chief engineer called Montgomery Scott! There's a touch of Star Wars in there too.

The introductory and in-game animated sequences actually do a much better job of telling the story than the manual, which is confusing, faintly pretentious and manages to say a hell of a lot without actually conveying very much. Read it, but don't expect to understand the game any better when you've finished. All you really need to know to play Epic is contained on the keycard and in the mission briefings. Sometimes it's not immediately obvious exactly what it is you're supposed to be targeting, but the mission descriptions in the manual just obscure things further. Incidentally the manual has evidently been proof read by Ocean's quality control team for F-29: "Ion is a particle of \*FILL IN LATER\*" (sic)?



This battle sequence looks spectacular. Unfortunately it is only part of the premission animation, the actual battle that follows is not quite as impressive.

#### Lost in space

To all intents and purposes Epic functions as a flight simulator in space, so you will find all the features that you've come to expect of ordinary flight sims, only slightly less complex. To



The animated sequences between missions are very atmospheric and probably the most effective aspect of Epic.



## Epic



The ground detail and general quality of graphics for the game proper is generally very good, it's just a shame that there isn't the same quality of gameplay.

say that the flight systems of the Epic craft are less complex is to say that there are less of them than your average jet fighter and monitoring them is less critical, it isn't meant to imply that Epic's flight systems are easier to interpret; they aren't.

As far as I can determine, navigating towards targets on the surface of planets is pretty much a case of flying around until you find one. You'd think that such an advanced civilisation would have an easier time of pinpointing targets, wouldn't you? Fortunately there are easier ways of getting towards targets (see the panel) but play can be frustrating until you discover them.

A further problem is that you have a limited amount of fuel on board. The manual waffles on about using a tractor beam to collect fuel pods but since you are never shown what these fuel pods look like, collecting them is a bit of a problem. This is not just bad gamesmanship on my part either, since my colleagues who have also played the game experienced exactly the same difficulty. The tractor beam is actually one of a selection of 10 weapons available. These are described in the manual, but it is difficult to tell which is which when you're actually playing the game.

There also seems to be a bug in the program which makes more weapons available for each mission than there actually should be. This would make the missions ridiculously easy were it not for the aforementioned fuel problem and the fact that there is an arbitrary time limit for each mission. The time limit is really only adequately explained for the first mission, in which it is supposed to represent the duration of an eclipse.

#### **ALTERNATIVELY...**

# Wing Commander II

Wing Commander was arguably one of the most successful PC games yet released. Superficially similar to Epic, you play a fighter pilot in the war against the Kilrathi (humanoid big cats). Where Wing Commander II really scores is that it has the stunning graphics of the original with a lot more depth of



gameplay, and that makes it a considerably better buy than Epic if you've got the hardware to run it on.

#### **Mantis**

#### MicroProse, £TBA

This reworking of Glynn Williams's classic game Warhead is being undertaken by American developer Paragon. It looks as if they've retained the superb gameplay but updated the graphics system and added



more presentational features. It will probably be worth waiting for this one if you want something with more involved gameplay.

#### Elite II

#### Konami, £TBA

Legendary programmer David Braben has been beavering away at the follow up to the most famous game ever for quite some time now, and rumours are that the great project is approaching completion. People



who've been privileged enough to see work in progress have returned with impressive reports. If you want the definitive space combat game this has to be worth waiting for.

There are actually only eight missions to fly which, even if the missions were almost impossible, which they're not, is not a very big number. Thirty-two is a bigger number, and coincidentally close to the number of missions in Warhead (to be released on the PC as Mantis), and people even complained that this wasn't enough. Eight missions is really a bit of a poor show

It wouldn't be too bad if the nature of the missions was varied but it's all pretty much of a muchness. You're either in space dogfighting enemy warships or skimming over the surface of a planet shooting up targets while avoiding bandits. To

#### TWO MINUTES OF MASS DESTRUCTION

In the first mission destroy the tracking station on Amragan Nine.

The mines float slowly through space and are easily destroyed with a couple of laser shots.

Once enough mines have been cleared, ,you can make your way towards the planet's surface.

On the planet avoid smal groups of bandits. Fightin them is a waste of time.











The enemy!
The Rexxons
are not a
particularly
attractive
bunch, either
in looks or
attitude. In
fact they have
a serious
paranoia
problem.

be fair, flying around shooting things is quite good fun but the novelty soon wears off.

Two of the missions have two objectives and the first must be achieved before the second can be tackled, so to be generous you could say that Epic effectively has 10 missions.

The missions basically divide into two types. The simplest are the space missions in which you're objective is to protect the human convoy and destroy as many Rexxon ships or mines as possible. The second, and more interesting type, involves flying over the surface of a planet to destroy one or more primary targets and as many targets of oppor-

tuntiy as you get time for.

## The long, the short and the three dimensional

It's easy to be negative about Epic because, for a supposedly revolutionary product, it has so many shortcomings. It does have its good points though. As I pointed out earlier, the presentation is first class, and the 3D is extremely impressive. DID have managed to put a lot of complex 3D objects on screen at once without a great loss of speed. What there is in the gameplay stakes is actually good fun, provided that you accept it for what it essentially is: a simple 3D shoot 'em up.

The problem with Epic is one that seems to crop up with a

lot of British software. We have plenty of good graphics artists and some of the best programmers in the world, but we are more than a little short of good games designers. The trouble is that there are too many good graphics artists and programmers who think that they can design good games, and experience sadly often proves them wrong. The United States, on the other hand, seems to have the opposite problem: a surplus of good game designers but insufficient artistic and technical expertise.

So to conclude, Epic isn't a complete write-off, but it certainly isn't all that was promised either.

#### LAURENCE SCOTFORD



The first thing to do is to follow the tracks that lead to the shield generator.

The shield generator must be destroyed before the tracking station can be eliminated.

Once the tracking station has been completely destroyed the mission is over. Now it's time to get back to the convoy and prepare for mission number two.











#### **SOFTWARE** REVIEW

■ Title: Leather Goddesses of Phobos 2: Gas Pump Girls Meet the

Pulsating Inconvenience from Planet X

Publisher: ActivisionContact: 010 33 1 49 10 99 95

Price: £TBA

# Leather Goddesses of Phobos 2

Steve Meretzky returns to the spotlight with a sequel to one of his most renowned

titles

aving heard that the infamous Leather Goddesses of Phobos game, the original Infocom text adventure, was to spawn a second game, that the game was to be released under the classic Infocom label, that the author of

the game was to be one of the most famous text adventure authors of all time, Steve Meretzky, it comes as a shock to all Infocom revivalists that Leather Goddesses of Phobos 2 is, in fact, a wholly graphic-based adventure with a mouse-driven interface.

After recovering from this initial shock, these same gamers reel at the package that LGOP2 presented them. Ten high density floppy disks strain to conceal around 15Mb of code. Also, hidden in the corner is a free, as Activision calls it, Lifesize Sound Enhancer — a miniature sound card that plugs into the parallel port offering low quality presentation of the game's digitised voices. The documentation, after all that, is an anticlimax, spanning a paltry 25 pages and with none of the extra 'perceived value' that the original Infocom games offered (ie,

#### TWO MINUTES OF LIFE IN ATOM CITY

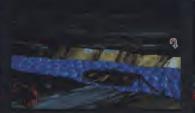
One way to get into the high security Army base: visit Prof Sandler's cellar, and activate his rain-making machine. From the Sandler's house, go straight through town and beyond, then turn left before the tunnel to find the site of the crashed spaceship.

Turning right from the spaceship, you find that the rain-making machine has turned the dried-up gulch into a torrent. Surely you can now use the boat.

The boat will carry you off downstream. Once the river has dried again, the only way you can go on is through that hole in the fence.

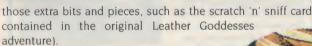












The game itself continues the basic Leather Goddesses theme of an utterly silly storyline encased in B-movie packaging. The essence of LGOP2 is sex, titillation and low-cut blouses and this will, for a large part of the gaming fraternity, be the trigger to buying the thing in the first place. In fact, there is little or no sexual explicitness with LGOP2. Lots of cleavage, sure; innuendo, yes; but the overtly steamy stuff ends there.



Inside the diner. When in a new location, trace over the whole screen with the cursor to show up which objects can be examined, or taken. Here, the bowl should be added to your inventory (in the toolbox, bottom left), as you'll need it later on for some chemical compound mixing.

So what of the plot? Taking place in 1956, you can adopt one of three personas, Zeke, Lydia, or Barth the alien, and the storyline varies slightly accordig to your chosen character. If you take the role of Zeke, the bourbon-drinking, womanising, muscle-bound garage-owner, your task is to investigate a low-flying meteor and resultant ground explosion not to mention reports of an alien on the run around Atom City - a misnomer if ever there was one. This place is pretty small. However, it does possess a nuclear research station run by the military, hence the name. You'll need to explore Atom City and its environs thoroughly before being removed to carry on your quest on other planets.

> Moving around is a simple matter of moving the mouse cursor around the screen. Whilst placed in a particular area of the screen the cursor will change shape to a

direction, just click to proceed to the next static location. Once you move to a location you have the option to examine it and the objects that lie within. Only a small number of objects are 'live', that is, can be manipulated. The roaming mouse cursor changes to a pointing finger when it encounters one of these. Clicking will either bring up a short text description at the top portion of the screen or, in addition, you will find that the object will

detach itself from the background allowing you to place

In the barracks on the other side of the fence, you open the cupboard and, lo, an Army uniform. Put it on immediately.

Wearing the uniform, you can explore the Army control centre without hindrance. These unattended consoles bear closer inspection.

A closer look yields different messages of varying usefulness on each console. Keep a note of the codes you're given for later in the game.

To leave the Army base and walk back into town, simply walk back through the main gates. The program will change your clothes back into civvies automatically.



## Leather Goddesses of Phobos 2



The pulsating alien has apparently broken out of the courthouse into Dealer Dan's car lot. Time to look up Dan, even if he'll only try to flog you one of his second hand cars.

it into your inventory. Once you have an object you can manipulate it in a number of ways. For example, the mere presence of the object will, sometimes, trigger further speech from a character. You can also give them to characters and, finally, you are able to merge them together to form new objects.

#### Talking heads

Interacting with people is very straightforward indeed. Again, the roaming cursor will change shape to become a mouth when a person is 'found'. A close-up viewpoint of the head and shoulders of the chosen character will appear with a number of icons appearing on the left-hand side of the

screen which represent the subjects you can converse on.

LGOP2 surprises not because it contains digitised speech but because all speech is digitised. This is some feat and goes a long way to explaining the 15Mb of code lying on the hard disk. The digitised speech itself is, mostly, very well presented. Each character has its own distinc-

tive, voice and speech mannerisms. Also, it is nice to report that when speech has demanded the extension of certain words, that is when a drawl stretches a word over time, the digitisation follows the word all the way. The game does not skimp, clipping the voice's character for the sake of disk space. There is some clipping of speech, where words are cut off, unfinished, but this occurs at the end of some sentences. It is a little annoying, though.

Despite the nice graphical presentation and the sound, however, the game is lacking. Oddly, for a 15Mb game, it is too short! The voluminous graphics and sound are the cause. There is not enough to do, neither is there enough variety. Although logical, the puzzles are frankly not too difficult, and while the graphics are excellent and the 1950s small town US atmosphere is conjured up convincingly, there's just not enough gameplay. Highly enjoyable, but not durable. You are able to play the game three times, in effect as the different characters.

Different puzzles are introduced but the plot is the same and there is not enough extra gameplay to encourage you to return twice more after finishing the game once. Also, I did find a few buglets. The game crashed once, froze another time and,

#### **ALTERNATIVELY...**

## Leather Goddesses of Phobos

#### Virgin/Infocom £9.99

Yes, the original Infocom textonly adventure written, again, by Steve Meretzky and still available on budget via Virgin's 'Infocom from Mastertronic' range. No amazing graphics here or long bouts of digitised The parties are that may be seen and the parties of the parties of

voices. Just text. But what text! This game is packed full of humour, atmosphere and excellent puzzles that will delight. More importantly it will outlast the sequel by many many hours because this game is packed with thought-provoking gameplay. Unfortunately the budget game does not offer the same standard of presentation that the original had. No 3D glasses or scratch'n's siff card here.

#### **Space Quest 4**

Sierra, £39.99

Another adventure game set in space but this time the genre of the game is slightly different. Yes, the problems are the same but the player character is animated on screen instead of



LGOP2 where the action is, largely, first-person perspective. Space Quest 4 contains similarly excellent graphics and, while it offers no digitised sound to speak of the music is very good indeed using a sound card. If you enjoy the wacky storyline that LGOP2 gives you, then Space Quest 4 may strike a chord as the plot is completely barmy including the Sequel Police and the movement through time and space through prequels and sequels of the game.

#### Martian Memorandum

Access, £40.99

Martian Memorandum (MM) sees the return of Tex Murphy, first seen in Mean Streets. In MM Marshall Alexander, the President of Terraform Corp,



asks Tex to find his daughter. The game is full of intrigue, deception, murder and ranges from Tex's home in San Francisco to the Martian Colonies in the future date of 2039. MM straddles both LGOP2 and Space Quest 4 in that you must control an onscreen character to solve object oriented puzzles but it also offers close up interrogations of characters using digitised graphics and digitised sound in an attempt to convey extra atmosphere.

finally, failed to trigger a 'reward' after solving a particular puzzle. Unfortunately, for atmospheric content, I prefer the original text game. In fact, I prefer the original game, period. Leather Goddesses of Phobos 2 is not a bad game, it offers one or two high spots even, but it is vastly overpriced for the minimal gameplay it offers.

**PAUL RIGBY** 

#### REQUIREMENTS

You'll need a hard disk to play this game with 15Mb of space free. You'll also need 640K or RAM and a machine that speeds along at 10MHz or faster. The 3.5" version of the game is available on request. Well presented digitised voices need a Soundblaster for the best results.





# Your world will never be the same again.

Come out of the shadows and step into the awesome world of CD Rom.

A world where time and space will take on new meanings. Where single programs will be measured in hundreds of megabytes. Where computer and video will merge to create a brand new Multi-media world, quite unique even in this fastest-moving of all technologies. And where CD sound quality, with fully synchronised speech will become the acceptable norm.

CD Rom gives you the chance to access the most extensive database programs, without overloading your hard disk. Special search engines seek out the information you need and load it directly into your computer. Taking seconds and saving you hours of frustration.

#### Sherlock Holmes Consulting Detective -

"Sherlock is bound to take a place in software history" - PC Review

#### Mavis Beacon Teaches Typing! 2.0 MPC -

"..like having the world's most attentive and patient typing teacher at your side"

**BBC Educational Computing & Technology Magazine** 

#### **READER OFFER**

To experience the new world of CD Rom, take advantage of a 'Special Introductory Offer' from Mindscape, of £5 off any of our CD Rom titles. Simply select your product(s), call the Mindscape CD Rom Hotline (Direct) on 0444 872234, or write to us (Quote Ref: CD02), enclosing a cheque, postal order or credit card details





CD Rom Hotline (Direct) 0444 872234

#### **Reference and Education**

Atlas Pack
Grolier Encyclopædia
Timetable of Science and Innovation
World Atlas
Bible Library
Mammals National Geographic
Mavis Beacon
Reference Library
The Presidents
Chessmaster 3000 MPC

#### Entertainment

Sherlock Holmes Consulting Detective CD Game Pack II - Selection of 10 games Ultima I-IV Wing Commander - Secret Missions I & II Wing Commander / Ultima VI Compilation - Megafortress / Das Boot / Aces of the Great War Chessmaster 3000



MINDSCAPI

Mindscape International Limited CD Rom Introductory Offer Priority House, Charles Avenue Burgess Hill, West Sussex RH15 9PQ Tel: 0444 246333 Fax: 0444 248996



Virgin's Wonderland is still a superbly playable tribute to Lewis Carroll's fantasy masterpiece.

# Virgin Games

Virgin has committed itself to CD development this year, and some exciting new projects are planned but, like many major publishers, it is also re-releasing some of its older disk-based games in a CD format.

What is unusual about Virgin's approach to repackaging on CD is that it has avoided the temptation to merely shove two or three games on each disk and then reprint the manuals at an appropriate size. There has evidently been a bit of thought put into Virgin's CD philosophy.

Each of the disks offers an attractive and easy to use menu system. From this you can play a game directly from the CD or install it to your hard disk first. You'll also find some extra value items, including an interactive catalogue of existing products and rolling demos of forthcoming games. Perhaps the most useful addition is a couple of very clever utilities which help you set up your config.sys file correctly.

The general presentation of the disks is also faultless, even down to using digitised pictures of graphics and sound cards on the configuration screens.

## The Zork Trilogy £29.99

Virgin has had some success with its budget relaunch of Infocom's text adventures over the last couple of years, but if you missed them the first and second times round you can get them third time lucky by scooping the classic Zork trilogy on a single CD. Infocom's text adventures look severely dated now, but they haven't lost any of their fascination.

A lot of the appeal of these three games is that they are very much in the vein of the original classic Crowther and Woods adventure; you explore an underground kingdom, dealing death and destruction to its nastier denizens and solving some excruciating puzzles along the way. The nice thing about the trilogy is that

there is a noticable increase in the difficulty level if you play them in order.

## Supremacy. £34.99

Supremacy was a very popular strategy game when it was first released. Your objective is to achieve complete domination of four planetary systems each controlled by a different type of alien dictator. You achieve your aims by careful control of military and economic factors. You can't support an aggressive expansionist policy for example, before you have set up a sophisticated supply chain through mines and factories.

# CD Con

Compilations of existing games or CD-ROM, known in the trade as Shovelware, are becoming more commonplace



Supremacy is made all the more playable by the excellent presentation which enlivens what could otherwise be quite a dry game. Strategy fans will find this very absorbing.

# The Magnetic Scrolls Collection £34.99

When this collection was first released on disk, the games were all updated to use Magnetic Scrolls' new windows system. This is definitely the way to play a text adventure (although these also include some graphics). The three games includ-

ed should cover just about every taste. Corruption is an archetypal mystery story. The Guild of Thieves is essentially a series of problems to be solved, while Fish! is a bizarre piece of surrealism which defies description.

# The Infocom Collection £39.99

If you are impressed by the Zork trilogy you can get more of the same in this package of four Infocom text adventures. All of the games use the same advanced parser, allowing you to interact with the story in quite complex ways like, 'Put the soggy cat in the cardboard box then put cardboard box in tumble drier.'



The Hitchhiker's Guide to the Galaxy will be familiar territory to anyone who has enjoyed the books, radio or television series, and slightly more lewd comedy can be had in the original Leather Goddesses of Phobos (see the review of the sequel in this issue). Planetfall has





# pilations

Laurence Scotford looks at the approaches of two companies to CD compilations and questions their value for money

you as a member of Stellar Patrol stranded on a hostile planet in the far future, and finally, Wishbringer brings you back to down to earth (well almost), as a postal clerk thrown into a strange parallel world.

# Wonderland £34.99

Magnetic Scrolls has done a superb job of creating an adventure from Lewis Carroll's classic book Alice in Won-

derland. This was the first occasion Magnetic, Scrolls had to utilise its new windows system.

In addition to the text window, you can call up a graphics window (occasionally animated), a map, an interactive inventory and more. Highly recommended to Carroll fans.



One of the two decent products on The MicroProse Collection is 3D Pool, which is worth a look until Archer Maclean's pool game makes its debut.

# **MicroProse**

MicroProse is one of the many firms that would do well to take a leaf out of Virgin's book. It has taken the tired old 'stick it on a disk with a simple loading menu' ploy. There is none of the thought or added value that is evident in the Virgin CD packs.

# Railroad Tycoon £39.99

If it's safe to say 'Nobody ever got sacked for buying IBM', you'd be just as safe with 'Nobody ever got disappointed after buying



a Sid Meier game'. Railroad Tycoon, in case you haven't yet encountered it, is a game set in the pioneering days of railways. Your objective is to build a railway empire, competing against the other railroad barons. It's nothing short of brilliant. Buy it!

# Midwinter/Gunship £49.99

A meaty double bill, this one. Midwinter impressed everyone who played it when it was first released and it has stood the test of time well. Fight your way across a 3D fractal generated landscape in an intriguing combination of strate-

gy and action.

Gunship is an early example of Micro-Prose's excellence in the field of simulation. It is unusual to come across a good helicopter simulation, and this one, of the AH-64 Apache supreme.

# MI Tank Platoon £39.99

If you really want an idea of how sophisticated modern tank warfare is then you can't go far wrong with this



simulation of the M1 Abrams, the most advanced battle tank in the world. This simulation puts you in charge of a platoon of four tanks carrying 16 men, and involves both tactical planning and all the action of the battle.

# The MicroProse Collection £49.99

This is the weakest of MicroProse's current crop of CD titles. Two of the titles on the disk, 3D Pool and Rick Dangerous, are actually very good games with tremendous playability. A third game, MicroProse soccer, is bearable without being

anything close to the greatest football game, ever released. The whole package is marred however, by the presence of Savage, which, quite frankly, is such a pile of unadulterated rubbish that to call it a waste of space would be a ridiculous understatement.



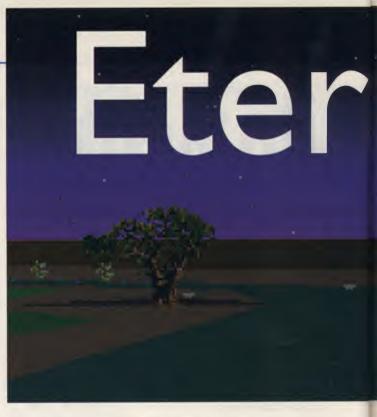


French games have a reputation for being a little unusual, but an entire adventure game set in a theme park?

here's an old adage in computer games (and anywhere else come to that) that it is easier to laugh at a joke than to write one. Very few computer games ever manage to produce real belly laughs in the player, with most references being merely in-jokes that show how 'clever' the programmer is. There are a few notable exceptions to this rule—stand up The Secret of Monkey Island, Lemmings and The Hitchhiker's Guide to the Galaxy—but on the whole, comedy is hardly well served in the computer games world.

Eternam rips that adage from its sockets and jumps on it with a vigour. It is one of the funniest (and most enjoyable — there is a difference) games I've played since the ubiqutous Monkey Island first swashbuckled its way across my PC screen. You wouldn't know it from the intro sequence or the background story, in fact it sets you up for what could be a gripping murder mystery set in a futuristic theme park (akin to the Yul Brynner classic West World and its less than memorable sequel Future World). What you get instead is a light hearted romp through various different 'worlds', attempting to work out who sent you here, why they did it and how to stay alive.

The background to the whole game is that you are Don Jonz, a futuristic bounty hunter with more than your fair share of enemies. Arriving home after a particularly tough case you discover that you've won a free holiday on the theme park planet of Eternam, a sort of Virtual Reality meets Disneyworld (or EuroDisney seeing as Eternam hails from France). On arrival at the planet it's soon clear that not all is as it seems since all of



the other guests vanish and you're left in a hostile world.

You do have a companion on Eternam, a rather delectable young creature by the name of Tracy. To be honest I suspect that the whole 'Tracy' thing was just a big excuse for the graphic artists on the game to use digitised animations of an attractive young model. Still, there's nothing like a bit of gratuitous sex appeal to spur a young hero on towards the finale, especially as there's the promise of a romantic meeting at the end.

You see, Tracy used to be an employee on the planet, in charge of running the computer simulations and such. When the planet was invaded by the villain who's set the whole thing up as a trap for Jonz, Tracy escaped by merging with the central computer and becoming a part of the whole system. Throughout the game she takes to helping Jonz out by appearing briefly to issue clues and advice. If Jonz can overcome the bad guys, get to the final island and free the planet, Tracy will be able to become whole again.

#### French polish

As is almost always the case with games from the continent, the presentation is superb. Digitised graphics, smooth-scrolling 3D landscapes with a nice collection of bitmapped

#### TWO MINUTES OF MEDIEVAL MADNESS

"You arrive on the planet of Eternam ready for a good few weeks of rest. Instead the place appears to be deserted. Best follow the path and see where it leads.

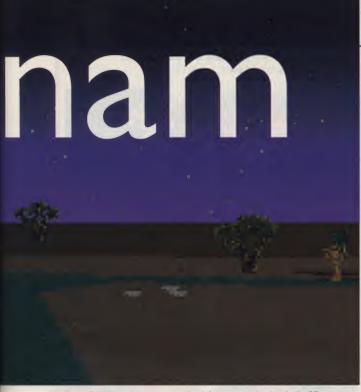
No sooner have you gone a few meters than a local inhabitant of the medieval world appears, bidding you welcome and suggesting an immediate visit with the duke.

At long last your destination is in sight, but before you can get to the gates of the duke's castle you are viciously attacked by one of Mikhal Nuke's foul creatures (spit, pah!).

A couple of fireballs later and the creature is no more. Inside the castle even worse awaits, such as Rex the guard dog. Luckily the guard considers you friendly.







Similar to Drakkhen (and using much of the same technology), the 3D views in Eternam are restricted to external locations. The amount of objects on offer even though almost all of them are purely decorational) is vastly improved and help to give a good feeling of speed.

objects (like Pacific Islands, only much nicer) and beautiful 256-colour interiors all create a marvellous atmosphere for you to walk around in and the colourful (in every sense of the word, thanks to the cartoon animations) characters and witty humour bring it all to life.

There was one slight quirk with the bitmapped graphics (I won't say 'problem' as it didn't affect the game in any major way) in that whenever the PC stopped for a second to update the screen — something that thankfully doesn't happen too often — the bitmaps would suddenly change into something else. All the trees would suddenly become rocks, flowers would become trees and huge water lilies would turn into huge frogs.

The sound was also another impressive aspect of Eternam that suffered from a slight glitch, only this time it's a tad more irritating. The actual music itself is fine, nice atmospheric tunes that fit the various island themes well and aren't in the slightest bit grating. The problem is that they don't always appear when they should, occasionally cutting out when the



Guiding you around this bizarre world is Tracy, your computerised ally.

Whenever danger is imminent, whenever she feels you may have missed something or (more commonly) whenever you die, she appears to offer advice, mourn your loss and generally pout and flutter her eyelashes.

disk is accessed and not restarting the second time you enter a location. It's not too damaging though and doesn't really annoy to any major extreme: it just would have been nicer if a spot more care had been taken.

An altogether more appealing aspect of the sound comes on the CD-ROM versions of the game. Whereas the floppy versions only provide you with written text upon the screen, CD-ROM versions (you guessed it) have full speech for all of the characters. It's just another touch that adds to an already overflowing reservoir of atmosphere.

As far as playing the actual game goes, Eternam works very well indeed. The 3D mode may look slightly odd at first, the odd colourings and strange mix of bitmaps and polygons, but it soon grows on you and before long you're not giving it a second thought as you speed along from A to B.

There is one aspect of the 3D sections that while not spoiling the game, don't help it in any way, shape or form. The dragoons (sic) are a race of lizard-like creatures who originally

Further into the castle you encounter a poor wretch of a skeleton with not much to do other than pace and moan. He's no use now, but maybe later he'll have something.

Further still and an archway leads to the elusive duke. But why's that guard warning you about a train? Ah ... that's why. Can you believe your own eyes? A train in a castle? This is too weird. After all that, you've reached the duke, only to be told that to leave the castle, you'll need to complete a series of trials to prove your worthiness. But you've only just got here!

The first trial involves negotiating your way past a huge pair of laser-shooting eyes. Make the wrong move and ... wham! Perhaps you need to disable them?











In keeping with the overall film-like feel of the game, Eternam occasionally changes the view to fit the mood. Upon entering a city, for example, you are treated to a look at the whole area in all its splendour. You are also treated to all manner of close-ups and panning views.

inhabited Eternam before the funparks moved in. Forced to live in abject poverty on a mere sixth of the land that was once all theirs, they were overjoyed when Mikhal Nuke (the main villain behind the whole plot) came along, liberated them and turned them into his own personal army.

Their only purpose is now to kill Jonz whenever they see him, resulting in the main combat aspect of the game. When the alert sign flashes on the control panel, it means that Jonz is in imminent danger of being attacked. His only defence (apart from running away) is to fire a volley of fireballs towards the offending creature. Aiming is all automatic, all you actually have to do is keep the creature in sight.

This would have been fine if not for two things. The creatures themselves are absolutely awful. Poorly drawn two-dimensional sprites that looked like they're all rejects from a very bad shoot 'em up. The second thing is that they're all very easy to kill, each requiring just five shots before they explode. Not much challenge and not a particularly pleasing aspect of the game. One of the two main bad points of the whole game.

#### A cast of thousands

As you're strolling along (although gliding along would fit the bill better) happily shooting dragoons, you're more than likely to bump into the odd character — odd being the operative word. With the story being that you're the only actual human still on the planet (apart from the bad guys), everyone you meet is actually a life-like replica, designed to fit the world they inhabit.

The various characters are all important to Eternam, whether they're providing a wealth of clues, carrying the story along or just providing a comical aside. In general when you speak to someone you are treated to a colourful cartoon animation. This is one of the high spots of the whole game, giving added dimensions to the rather blocky sprites and lifting the whole mood, giving Eternam a style all of its own.

Sadly, it doesn't last as the further you get into the game, the more untidy it becomes. Characters stop having cartoon illustrations when you talk to them, the amount of locations to visit on each island slowly diminishes and the odd graphical glitch starts to crop up. On the plus side is does get a lot harder to solve the puzzles (especially in the Egyptian levels) and the amount of time you spend in each area increases, it's just a pity that the initial enthusiasm and quality from the first couple of islands isn't kept up throughout.

#### **CARTOON DEATHS**

Eternam is chock-full of cartoon set-pieces, most of which occur when you kick the bucket. For example, you could be ...



attacked by guard dogs ..



flattened by doors ...



flattened by stone blocks ...



beheaded for lawn trampling ...



beheaded for trespassing ...



or you could even drown in a desert!

Eternam's other main problem is a very irritating system used for conversations. The core of the system is similar to the Monkey Island system, a line or two of text each before you get to choose from a selection of questions, responses or statements. Whereas in Monkey Island you'd usually get the chance to ask almost all of your questions before the conversation ends, here you get to choose one path and can't go back to ask about something else without leaving the conversation and going back into it again. On top of that, when you opt for this course of action, the characters still say exactly the same things and act as if you've never met them before. It's the breakfast TV weather girl syndrome: people that are well presented and look really nice but have all the personalities of wet haddock.

Most of the characters encounters take place in the adventure sections of the game, where everything starts to look like the more typical graphic adventures currently available. Mixing the two styles of gameplay could have caused a lot of problems but luckily Eternam manages not only to pull it off, but to pull it off with as much flair as an American wrestling match.

The various settings are all very well realised, with authentic scenery for the historical islands and intriguing locations for

#### REQUIREMENTS

Essentially Eternam doesn't pose any problems for most computers, the biggest requirement seeming to be the 5.7Mb of space needed on your hard drive. 560K of free RAM memory is the minimum needed, so you shouldn't have any worries from a technical point of view.



the futuristic or mythical ones. This is where Eternam scores most of its laughs, with so many bizarre events taking place (especially in the mediaeval castle — watch out for the guy up the chimney and the weird wobbling finger) you may not catch them all first time around.

You start off with mediaeval knights and wizards, progress through revolutionary France, go on to a hi-tech computerised world (complete with the cast of Star Trek and the programmers of the game!), take a trip to the moon just in time for the first lunar landing and get lost in ancient Egyptian temples. There are more worlds but I've yet to reach them (my percentage of game completed score is only 65% and doesn't look like rising for some time yet).

#### Icon see clearly now

Still, as I said, the characters are all-important to the game and if you're willing to persevere they can be very entertaining. Thankfully your efforts at progressing through the game aren't hampered by the overall control method.

A row of icons along the bottom of the screen take care of looking, talking, using and getting while movement around each screen is achieved through the cursor keys. Strangely there's no mouse or joystick option for movement; you can't click on an area of screen and watch the character move towards it. Everything is done through key commands and it works surprisingly well.



A really nice feature is that Jonz identifies useable objects by himself. As you walk around, if you go anywhere near a 'hot' item he'll spot it, a dotted line will be drawn from his eyes towards it and he'll tell you what it is. This eliminates all those tricky identification problems found in other games where you

can't tell if the strange brown mess on the floor

is a stick, a snake or a piece of rope.

One thing it does do though is make the look icon relatively obsolete (I've yet to find a real use for it other than to re-identify objects), but on the whole the controls work smoothly and allow you to get on with the important business of enjoying the game.

Which ultimately is what you'll do. I know I did. Eternam is a remarkably enjoyable product, being an intriguingly challenging game, while taking a completely off-beat look at the whole concept of the future and sci-fi in general. I loved the film quotes in the manual, especially the one from The Big Sleep, scene 14, first reel after the cartoon.

Speaking of the manual, it's nice to see that for a French game, it isn't full of what I call Franglais — ie, badly translated English. It's very well written (although the illustrations leave something to be desired) and highly amusing. In fact the whole game has been remarkably well translated, right down to the comedy, an unexpected luxury as humour is usually the first casualty in crossing a cultural divide.

Eternam's aforementioned problems can be extremely annoying. But on the whole it's one of the most entertaining pieces of software I've played for a long time and certainly one of the most absorbing. It's been ages since I've actually wanted to play a game through to the end (I didn't even have the urge to want to complete Monkey Island 2 after a while), but Eternam has rekindled my faith in this much vaunted and often abused genre.

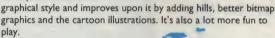
PAUL PRESLEY

## ALTERNATIVELY...

Drakkhen Infogrames, £35.75

Although Ultima Underworld claims to be the first first-person perspective game to use smooth scrolling graphics, Drakkhen actually pioneered the style long before the Origin boys climbed on their high horses with a yee-hah.

Eternam takes the basic concept of Drakkhen's





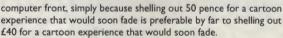
#### Space Ace

Readysoft, £39.99

Using cartoon graphics to carry a game was an idea first seen in the laser-disc arcade games of yesteryear (and the subsequent

conversions). Unfortunately, while the graphics were wowing the onlookers, the player had very little to do himself, simply pushing the odd button or selecting the correct direction at appropriate moments.

It worked better in the arcades than on the home





#### **Hare Raising Havoc**

Disney, £59.99, (includes Sound Source module)

An altogether more admirable attempt at employing cartoon graphics in a computer game environment was acheived by Disney's own conversion of its mega-famous animated star, Roger Rabbit. Still a pretty standard game, but it was much

more playable than the Don Bluth attempts.

Eternam's use of cartoon illustration is far more effective as it doesn't rely on them for the whole duration of the game, instead lifting the mood at appropriate moments and therefore endearing themselves to the player for a much longer period of time.

# The Secret of Monkey Island

Lucasfilm, £30.99

If it's humour you're after in a game you can't do much better than Lucasfilm's original Monkey Island (although Eternam does give it a run for its money). Taking a sideswipe



at everything from Indiana Jones (a Monkey Island stablemate no less) to the ridiculous amount of disks games seem to come on these days, Lucasfilm was able to prove it could do more than just film conversions.

It's arguable whether or not the sequel is better than the original (certainly it outclasses it in the presentation stakes) but there's something about Guybrush Threepwood's first adventure that just sticks in the mind and screams 'classic'.

#### **SOFTWARE** REVIEW

■ NFL Football ■ Konami ■ (081) 429 2446 ■ £34.99

Put on your shoulder pads, paint your face, take to the field and ogle the



## cheerleaders with the latest in American football sims

've played a lot of American football games in my time, everything from the legendary John Madden's Football on the Sega Megadrive to TV Sports Football on the Amiga, right down to the 8-bit incarnations of Super Bowl from Ocean. Although almost all of them faithfully recreated the rules of the game while employing a user-friendly control system, none of them has ever really managed to conjure up the same kind of spirit that the real game induces. Sure, they all include a short half-time show with a few cheerleaders or action-packed replays (some even include digitised speech for the commentary), but none of them capture the all-important razzmatazz.

Unfortunately, Konami's NFL Football is in exactly the same boat - a nice enough game that just doesn't have the right sense of occasion. Which is a shame as it has the potential to be one of the better gridiron games, allowing you to deal with everything from creating plays to dealing with injuries (as well as actually playing the games).

In fact, when it comes to options just about everything is taken care of, whether you want to just manage the side, play

in a single position only or deal with all the draft pickings. injuries and other associated 'red tape' that comes with managing a successful American football team.

What's also nice is that all the real life teams are in there (but sadly not the real life players — although you can edit the teams to include your favourite stars of the NFL), something which is often skipped over in favour of city names in other programs because of licensing difficulties. Being able to control the 49ers versus the Bengals is much better than being able to control San Francisco versus Cincinnati.

#### DIY gameplans

One aspect that works well is the playbook editor, in which you can create your own offensive and defensive plays by picking options from a set of menus. Each menu deals with a different aspect of a play, starting with offence or defence and ending with which player is the designated ball-carrier and where he runs to. Actually, it's a lot of work to edit a team to include your favourites (or yourselves or whatever) and to design a whole

#### TWO MINUTE WARNING

"And you join us, folks, deep into the fourth quarter. The 49ers are down by four points to the Bears, but are pushing an offence on the Bears 45-yard line. And I believe that was the two minute warning, wasn't it Bob?"

"That's right, Jim. A bit of much needed breathing space for Montana as the clock stops. The 49ers are lining up in a shotgun formation for this first down, the ball is snapped and it's high in the air for Jerry Rice to make the catch.'

"Oh no, Rice has dropped it! I don't believe it, Jim - the safest hands in pro football has dropped this 30-yard bomb and that's left the 49ers in a very tight situation indeed. What a turn up for the books! A time out has been called.

"Well. Bob, with just over a minute and half left on the clock and the Bears' defensive line not giving an inch, we can only wonder what's going to happen next. suspect a run to try and catcl them out.



#### **Football**

Accolade, £34.99
Reviewed back in Issue 3 (and notching up a rather tasty seven stars), Mike Ditka tries the old 'get 'em with the graphics' ploy, containing masses of digitised stills and



animations, sampled speech and music and even a isometric replay view with polygon backgrounds.

It doesn't play too badly either with a nice selection of offensive and defensive plays and a clear yet concise control method. The one area it does tend to get a little bit tricky is when you pass the ball, but I dare say practice will make perfect.

#### **TV Sports Football**

Mirror Image, £9.99

Considered by some to be the 'bible' of American footie games (never quite saw the appeal myself), TV Sports comes from the now sadly-defunct Cinemaware and was one of the first sims of the sport to include all the trimmings of the real thing



(such as TV commentators, half-time cheerleaders and even advertisements).

As a game, it's one of the best — but to be honest there wasn't much in the way of competition on the PC until Mike Ditka came along so it pretty much had the field to itself — and it surprisingly doesn't looked dated. The only trouble you may have is finding a

book of plays and it is a shame that once you've got your fully customised team you can't save it on to a disk and load it on to another machine to challenge a friend.

Once you're out on the field,
NFL does initially look a little disappointing. The players look like low-grade Lemmings with helmets and they move around the field as though on an ice-rink. But the worst is yet to come. Once you've picked a play and watched them line up,

one of NFL's bigger problems crop up — the intelligence of the players. Wide receivers tend to go too wide (haplessly running out of bounds at the first opportunity), blockers tend not to block too effectively and the quarterback doesn't always respond to your 'Throw the ball' command, preferring instead to have four or five huge opponents land on top of him before he releases the pass.

I think a lot of it can be put down to experience though, as despite my uncanny knack of never being able to win a game (except when playing against someone less familiar with the game than myself) I did find it all strangely enjoyable. After a while you stop playing the game using real life American Football strategies and you start to adapt to the faults and work around them, playing Konami's NFL Football instead of real American football.

The manual doesn't help matters, describing the controls and the way the game works but not really helping to guide the novice player through the various finer points of the game (if there are such things). Some kind of step-by-step section would have been a great help, even for fans of the sport.

NFL Football really benefits from a lack of decent competition on the PC, with only Mike Ditka's seeming to be attractive enough to take the honours as MVP (Most Valuable Player). It's all down to whether you are willing to wait for the definitive American football game to arrive or whether you want get on to the turf right away. If the latter is the case, NFL is more than adequate.

PAUL PRESLEY

REQUIREMENTS

Not much is needed in the way of memory and you'll only require around 2.5Mb free on your hard drive if you want to install NFL.

Technically it fares pretty well, with no major bugs, corruptions or faults cropping up.



"I agree, Jim, and it looks like Montana does too. They're lining up in the I-formation, he's calling the plays, the ball is snapped and handed off to the running back. A gap has opened and it looks like he's through." "Yes, he's over the line of scrimmage and going for the endzone. The Bears's linebackers are desperately trying to catch him as the crowd here at Candlestick Park are on their feet and ... oh my! He's been stopped at the 10."

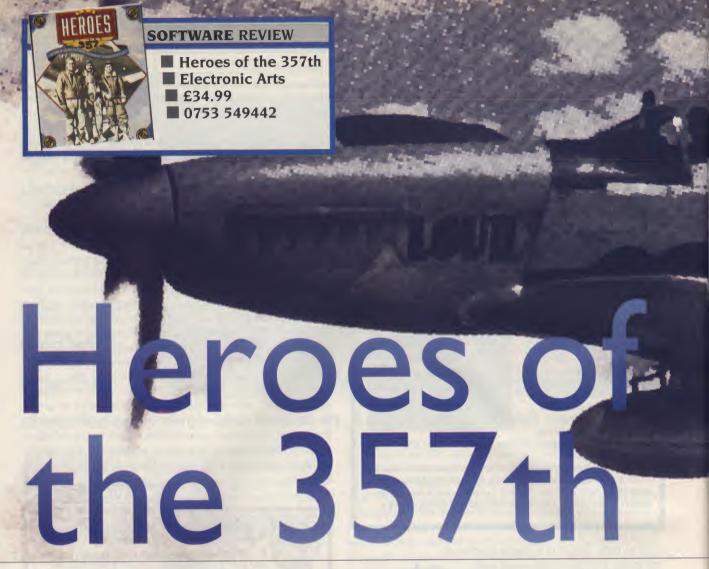
"The clock hasn't stopped though, Bob, and with less than a minute to go and no time outs left, this could well be the 49ers' last chance to score. Montana's wasting no time in picking his play and they're back in formation already."

"The ball is hiked, Montana's looking. Rice is into the endzone. The clock's just run out. It's now or never ... the ball's up, over the line and yes! Into the hands of Rice for a touchdown. The 49ers win it in the dying seconds and the crowd is going wild."









The famous 357th squadron, which played a major part in defeating the Luftwaffe during World War II, is given a tribute in this accessible historic simulation

There are impressive intro and outro animations showing the plane taking off and landing, and they are easily skipped once you get bored of them.



Pollowing its success with Chuck Yeager's Air Combat, Electronic Arts has decided to look specifically at the plane and squadron that General Yeager first saw action with. These are the P-51 Mustang and the 357th Squadron, affectionately known as The Yoxford Boys. The 357th was stationed in the English village of Yoxford for the last two years of the war and was mainly responsible for escorting bombers over enemy territory. The P-51 was well suited for this purpose because of its long range when equipped with drop tanks. It was also capable of carrying its own small bomb load. As the 357th began to prove its worth it started to broaden its range, with some pilots flying interception and strafing missions.

Heroes of the 357th puts you in the cockpit of a P-51 on a series of missions over occupied Europe. There are five different mission types to fly. Fighter Sweep is a simple fighter inter-

Even a harassed Mustang pilot gets time for a little sightseeing now and then.

On this occasion you get a grandstand view of the Eiffel tower





#### A smooth flight

One thing that is immediately obvious is that the design team has made a definite decision to concentrate on playability rather than accuracy. The P-51 can't have been as easy to fly as you would be led to believe by this simulation. This won't please dedicated flight sim buffs, but then they already have a wide range of products which fulfil their needs. The number of 'simple' World War I flight simulations testify to the popularity of playable games in which the player is not bogged down by a confusion of technical detail and gadgetry.

The Mustang is very good in this respect; the flight instruments are limited to the bare essentials like an altimeter, air speed indicator, fuel gauges and so on. Since you never have to actually take off or land, all you have to really worry about is perfecting tricky manoeuvres during dogfights and these are made easier because the simulation automatically coordinates rudders and ailerons for turns.

Probably the hardest aspect of flying the P-51 is keeping it in the air during a strafing run. You have to keep your speed low so that targets can be hit accurately, but that means that you are constantly in danger of stalling, which at altitudes of 500 feet or lower can be fatal. Stalling may also be a frequent occurrence while dogfighting, but this usually happens at a high enough altitude to give the pilot time to pick up speed again and restart the engines long before reaching the ground. In any case you have the option to be warned of imminent stalls and crashes by an alarm signal.

of glory is instantly

replayed and can be

viewed from any angle.

The concession to playability can also be seen in the design of the 3D objects. Firstly, good old filled polygons are back, and you won't find any scaled bit-mapped images or any fancy texture mapping here. Secondly, none of the objects is particularly complex, in fact many are downright crude, and the ground detail in general is never that detailed, even in the highest definition mode. This does mean though that, on all but the slowest machines, you get a reasonably smooth and fast flight.

Before you actually begin your war career in earnest you can fly a training version of each type of mission as well as an addi-



# Heroes of the 357th

tional type called Free Flight. The latter places you in the skies over Paris in an indestructible plane. You can then practise strafing, bombing and dogfighting without having to restart each time you make a mistake. All the other training missions are flown in exactly the same way as the real thing except that your success or failure is not written to your war record.

You won't find any sort of tutorial in the manual, but then you don't really need one. Flying a couple of practice missions is enough to learn how to control the plane effectively and since you always begin each mission in the air near the target and end it once the target is destroyed, the most tricky aspects of flying (landing and taking off) are completely avoided.

A very good feature of Heroes is that you are free to fly additional training missions at any stage during the game, even if you've already started a war career. This is handy if you find that you are repeatedly doing badly at a particular mission type like strafing. If you do screw up badly though, it's not necessarily a problem; you can opt to fly any failed mission again, even if you crashed or were shot down. Furthermore pilots who are Prisoners of War (POW) or have been Killed in Action (KIA) are kept on file and can be 'resurrected' at any stage of the game. It is therefore possible to play through the entire war with your first pilot if you wish to do so.

#### On a wing and a prayer

When you finally elect to start a war career you must fly a tour of duty consisting of 34 missions. Unlike the training exercises, in this instance you don't get to select which type of missions you fly. The selections aren't purely random though, they are placed in context within the war effort as a whole. The campaign aspect of the game hasn't been overdone but at the end of each mission you are given a debriefing which explains how the mission has affected the war in general. There are also occasional pieces of major news on the progress of the war.

These little presentational extras aren't really essential but they do add a bit of atmosphere to the game. They continue with a 'meanwhile back at the mess' scene in which your colleagues either pat you on the back or give you an earful depending on how well or badly you've done. Watch out, they're a fickle bunch; they love you one minute and hate you the next.

Before you actually get up into the air there's the usual briefing. In this case it's just a single document which tells you your objective but it's followed by quite a clever feature in which you have the opportunity to learn what your targets look like by watching a short black and white film.

# Secret Weapons of the Luftwaffe

#### US Gold, £40.99

Lucasfilm made a welcome departure from the norm with this simulation. Not only does it use impressive bit-mapped graphics rather than polygons, making the planes look more realistic, it also concentrates on the more unusual side of World War II warfare. Once



again you can fly a Mustang, but this time you're pitched against the Luftwaffe's more exotic experiments.

#### Chuck Yeager's Air Combat

Electronic Arts, £34.99
Also featuring the P-51, this simulation gives you the chance to fly five other planes from World War II, Korea and Vietnam. Yeager is a lot more technical than Heroes and has an impressive wealth of



features, so it's probably more your cup of tea if you want a 'heavier' simulation.

#### Aces of the Pacific

#### Sierra On-Line, release imminent.

From what we've seen of Dynamix's follow-up to Red Baron to date, it looks as if it's going to be exceptional. You'll probably need a fairly upmarket machine to run it however. This simulation concentrates on the air warfare



between the USA and Japan and gives you the opportunity to fly a range of planes on both sides. With more options than you could shake a mouse at and some impressive graphical features, this looks like being the definitive World War II flight simulation.

There's a short take-off animation and a map showing your planes flying to their destination and then you're in the thick of the action. I say 'planes' because each mission is flown with at least one wingman, plus any bombers you are escorting. Your wingmen actually behave quite intelligently without supervision, although you can order them to attack or break off at any time. They will often come to your rescue if you are having

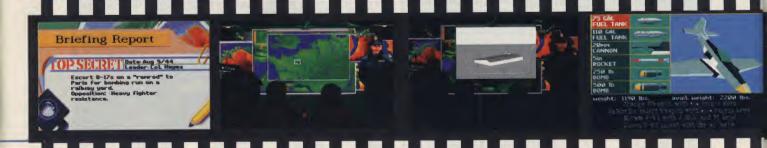
#### TWO MINUTES OF FLYING TO HELL

The tension mounts on the ground as I'm briefed on the mission objectives.

The map shows the location of today's target. I can decide whether I'll need drop tanks.

The briefing ends with a short reconnaissance film of the target to aid identification.

Before heading out, I've got to equip the P-51 with the appropriate ordnance.







Ground detail is pretty good when you get down to the sort of altitudes that strafing missions are flown at. At higher altitudes, major geographical features like rivers are supplemented by speed dots.

trouble shaking off an enemy plane, but by the same token you will be expected to help them out of tight spots too.

The 'intelligence' of the enemy planes has also been well-programmed. They do seem to follow genuine tactics and the competence of the pilots does appear to vary quite considerably. The dogfights that result are often very spectacular. So spectacular in fact that you will positively welcome the action replay feature.

The last few seconds of the action are continually recorded and with a single key press you can replay any moment you like. Furthermore, unless you switch the option off, kills and the destruction of major targets are automatically replayed. It's nice to be able to sit back and review your moments of glory and you can always switch it off if it gets annoying.

#### A view to a kill

Like all recent flight simulations, this one boasts an impressive range of external views. You can view your plane from almost any angle, but EA has gone one better than most flight simulations and Heroes actually introduces some tactically useful views as well as the standard scenic ones. These include a view looking from behind the plane towards a target or vice versa, and an overview which continually pans around your plane and is a great help in watching out for approaching enemy aircraft.

The most useful additional view, and one which really does increase the playability of the game, is the combat view. This is an external view which has your plane in the foreground and the nearest enemy plane in the background, so you can immediately see how the enemy is positioned relative to you. The clever thing is that you can switch between this view and the standard forward view simply by pressing the second fire but-

ton on the joystick. This cures a fundamental problem with most flight simulations: the difficulty of taking a quick peek over your shoulder during a dogfight without getting into tangle with a complicated sequence of function key presses.

#### The plane truth

Heroes of the 357th simply doesn't have all the frills that seem to accompany every new flight simulator on the market. The front end is remarkably uncluttered, you can only fly one aircraft, and you don't even get to land it. If that all sounds a bit negative then read on. The design philosophy behind this product has been a good, old fashioned one. Someone at Midnight, the development team, has evidently said, "let's throw out all the incidental junk and concentrate on making this playable and fun", and they've managed to do just that.

If you're a military aircraft buff and you're looking for a precise and accurate simulation of the P-51 then you might be disappointed with this, but there are other simulations that meet your needs (see the Alternatively panel).

If, like me, you enjoy flight simulations but frequently find them too dry and technical, then you are really going to like this one. You won't have to wade through a doorstop of a manual (its length is largely caused by an interesting history of the 357th squadron), and you won't need to put in several hours just learning to fly the thing.

#### LAURENCE SCOTFORD



In flight I can consult a rough map to get my bearing and distance relative to the target. Bandits! We've been jumped. I'll have to break fast if I'm to avoid being shot out of the sky. Too slow! The Hun has hit my engine and I'm going in. There's only one hope ...

... bail out. In a few seconds my 'chute will open and I'li drift down. Will I be captured though?





A game of two halves? A funny old game? A matter of life or death? Nope, football's far more important ...

t's about time there was a good footie game on the PC. Okay, so a rash of contenders appeared just before Gazza did his blubbering act in Italia '90, but not a single one of them was up to scratch. They either put technical brilliance ahead of playability (as in MicroProse's 3D effort) or were just plain silly (like Virgin's 'official' effort which boasted teams of nine a side and goalkeepers wearing flat caps!).

So, with football's popularity on the up and up, another major championship stirring the public's interest and British MS-DOS gaming technology two years older, surely now is the



In the best tradition of football games, you control the player closest to the ball (indicated by the 'spotlight').

# European

time for that elusive footie great to finally show itself.

It's certainly got the right pedigree. Elite's 'game of the championship' is actually a conversion of an update of the highly popular Tecmo World Cup '90 coin-op (still with us?), which has managed to remain among the most popular arcade games in the country for over two years now – no mean feat in itself. So we're left with a few questions to ponder: firstly, is it a good conversion of the coin-op; then is it a good recreation of the championships themselves – and, most importantly, is it a playable game in its own right? Let's deal with the last of these first.

If a good range of options is enough to base an opinion on, then this has already made the grade and we might as well stop right here. European Championship 1992 gives the player more options to consider than Graham Taylor, including one or two player games, joystick or keyboard control, support for numerous sound cards, multiple game times, save and load game facilities ... you've probably got the point.

#### REQUIREMENTS

European Championship 1992 runs perfectly well on even the slowest of machines, but you do need at least EGA graphics. For two player games you'll need at least one joystick, as the keyboard cannot be configured for two.



#### A GAME OF TWO MINUTES

So, once again England and Ireland take the field to try to answer the eternal question – is Graham Taylor's indecisive team selection preferable to Jack Charlton's 'route one' game? The usual cheerleaders are all in place(?)

Already Mick McCarthy has stamped his authority on the game – or is it just Trevor Steven's ankle? Anyhow, the injured party's ankle holding antics suggest that the Japanese developers knew something about the continental game.

A fine cross from Ray Houghton and Niall Quinn rises high to score the opening goal. Chris Woods would have had a better chance if he wasn't permanently confined to hovering outside his six-yard box. The goalkeepers are all automatically controlled.

Half time, and the players
leave the pitch to be replaced
by the rousing din of a
marching band – it's at times
like this that you'll be glad you
invested in that sound card. the
Either that or a quick press of
the fire button and they'll go.



Anco, £24.99

Universally regarded as the greatest footie game of all time on the Amiga and Atari ST, this had somehow become a sad unplayable shambles by the time it reached the PC. Avoid it like a Wimbledon-Luton fixture at Selhurst Park.

#### The Manager

US Gold, £30.99

Some prefer the sweet smell of the manager's office to the sweaty stink of the changing room – and there are a whole host of 'simulations' designed specifically to fill such needs. Watch out for a full review of this one next month.







in the relevant direction. Buttons A and B also act in different ways when the ball is loose or in the opposition's hands, making the player slide and jump respectively.

In single-player mode, the opposition is just good enough to give you a hard time, while not being so hot as to make you switch off and get back into Ultima Underworlds instead. However, like all sports games, this one is better with a friend along, and if you've got a twin stick set-up then better still.

So how does it fare in the championship simulation stakes? Well, the surprise answer is that even the late departure of Yugoslavia hasn't caused any problems, as you can choose any eight European teams to participate (the developers obviously had to get things going before the final line-up was decided, but this is a positive advantage, as it allows Jack's gallant boys in green to take part after all).

The only problem that arises in this regard is down to the game's arcade parentage. The problem is that you have to win every game you take part in to progress, which may be ideal in

# Championship 1992

The best part of all of this is that Elite seems not only to have thought of everything, but has presented it in such a friendly way that you already feel good about the game before the referee has tossed the first coin.

The control is just about as straightforward as you could hope for. One player comes under direct control (highlighted

by a natty 'spotlight' effect), while the rest move in an almost intelligent fashion.

The highlighted player's action differs, depending on his relation to the ball: if he's in control, he simply runs in the required direction, with the ball staying obligingly at his feet; to release the ball, the player can choose a low short shot (joystick button A) or Jack Charl-

ton's favoured long ball (joystick button B) – either way the ball is automatically aimed to the nearest player

arcade terms (because the player keeps pumping coins in to continue after a defeat), but doesn't cut the mustard here – surely it would have been easy enough to alter things so that you could take part in a group set-up just like the real thing.

But then, that just answers our question about how this conversion recreates the original coin-op. In fact, this is something of a triumph in this department, as EC '92's developers have managed the near impossible task of capturing the 'feel' of their subject as well as its look.

It may be something of a backhanded compliment to say that European Championship 1992 is the best PC footie game around ... but it is! One day, someone will come up with a frantic, complex, playable and exciting simulation of Britain's favourite sport which will blow this one's boots off – but that day seems quite a long way off, so maybe you could settle with this one until it finally arrives.

CIARÁN BRENNAN

Into the final few minutes and Gary Lineker scores the equaliser with a spectacular overhead kick – jammy git. You can watch this again in the 'action replay' mode (and you can even save your favourite efforts to disk).

Another fine sliding tackle from Dave O'Leary switches the play from defence to attack (PC Review would like to make it clear that the love Clarán has for the Irish side is not wholly shared here and that Lineker's goal was, in fact, a superb effort – Ed.)

Seconds left and the usually dependable Des Walker gives away a corner (by the way, how come old Des is white? Perhaps Ron Noades had something to do with it), can the boys in green capitalise on his mistake or will it be too little too late?

Yes! Tony Cascarino rises high on his hind legs to score the winner (you didn't think it would be another 1-1 draw did you?). Graham Taylor is left to consider yet another permutation of any 11 players from a pool of 200 while Jackle's boys return in triumph.





arrier Strike is the latest offering from one of the high priests of war and conflict – Strategic Simulations Inc. It is a tactical simulation of aircraft carrier operations in the Pacific between 1942 and 1944. This period covers the greatest 'flat-top' confrontations in history, from the Battle of the Coral Sea, through the cataclysmic Battle of Midway, the Battles for the Solomons and for Santa Cruz, culminating in the great Marianas 'Turkey Shoot'.

The designer of Carrier Strike is Gary Grigsby – famed for Panzergruppe, Second Front and the definitive Western Front. The drop-down menu system of Western Front has been further developed for use in Carrier Strike, and is looking better and better. The individual battles can be played on a 'mix and match' basis, or on a continuing campaign basis; note that if the USS Yorktown is sunk at the Battle of Coral Sea, it won't appear at the later Battle of Midway!

#### Search and destroy

Installation is painless, and copy protection is the normal manual word check. Options allow either two human players, or one or two computer opponents. Either Allied or Japanese sides can be selected, and difficulty is gradable. The documentation is very comprehensive and offers a step-by-step guide through a tutorial. Maps of the relevant battle areas are included, and all ship and plane types are illustrated by line drawings. There is an excellent potted history of carrier development and warfare.

Carrier Strike deals with the two main aspects of carrier operations in WW2. The first was to find and destroy the enemy fleet (especially rival flat-tops). If you can't find them you're in deep trouble, so search operations are crucial. The player can use carrier-based planes, land-based aircraft and (if you're playing the Japanese) even float planes. The planes are designated search areas and will cover a 10 degree arc. Some 36 aircraft would be needed to search the entire perimeter, so it may be necessary to decide which are the most likely zones, but heaven help you if you miss that Japanese battle squadron.

The second aspect is one of flight operations. Carriers are not floating air-fields, they have limited resources, and very limited space. There are several bottlenecks and weak points: the flight deck, the hangar lifts, arming and refuelling.



SSI puts its role-playing developments on a back burner and gets back to its roots with what could be its best war game to date

It is not just a question of deciding to launch a strike and seeing the planes fly off into the blue yonder. Decisions have to be made as to the types of plane involved: can fighter cover be spared, should the bombers have bombs or torpedoes, should the search planes be armed, and therefore slower? Unfortu-



#### TWO MINUTES AT THE COMMAND OF A FLAT TOP

Your top secret orders – your main mission is to defend the strategically important island of Midway. Details of Task Force 51, comprising two carrier groups to the north of Midway. Cloud cover is heavy. Flight deck of the USS
Enterprise. Seven F4 Wildcats,
and the whole of Scouting Six
ready to launch.

Report from the Task Force searchplanes, where are the Japanese carriers and any invasion force?



# Carrier Strike - South Pacific 1942-44

nately the destruction of the enemy fleet will not be your only consideration, strategic targets have to be protected, and your carriers are a limited resource. At the start of World War II the US Navy possessed only six fleet carriers, and although these are replaceable in the long term, survival, and slowing down the Japanese advance is the name of the game. If you play the side of the Rising Sun, time is running out and you must destroy the US Navy and its carriers before the industrial might of the US becomes unstoppable.

The various options often become dilemmas, and are deliberately inherent in the structure of Carrier Strike. The problems were well illustrated at the actual Battle of Midway where the Japanese Admiral Nagumo was caught with flight decks full of re-fuelled and rearmed planes just as the US bombers arrived. The position had been complicated by Nagu-

mo ordering his bombers to be rearmed several times, changing from torpedoes,

to bombs, back to torpedoes again.
The ensuing carnage at Midway irrevocably swung the balance of power in a deadly five minute spell.

Gameplay is divided into a series of turns, with the order phase being the only real player involvement. All other features such as radar reports, land-

ing aircraft, resolving naval bombardment and combat generally are dealt with automatically.

The product is subtle enough to include items such as the effect, and breaking, of radio silence, submarine contact, emergency landings, airfield damage, shore bombardment and a mass of other factors. There is even rudimentary air-to-air combat, and graphics of the bombing of both sea and land targets.

Previous SSI wargames have been criticised on grounds of graphics, interface and playablity. This is without doubt the best graphically presented SSI wargame, a big improvement on earlier releases. The visuals supporting the 'search' routines

are particularly good, SSI do tend to develop a system and use it in other products, so it will be interesting to see what they do as a follow-up to Carrier Strike.

ROBIN MATTHEWS



360/Electronic Arts £34.99 It's been around for a couple of years but is still very good as regards modern 'strategic' naval warfare. Covers all aspects, with several scenario disks available. Huge amount of stats and information.



### Dreadnoughts Turcan Systems, £34.95

Latest from war gaming specialist author – and the best to date. Surface action between behemoths only – no air or carrier action. Interface needs a little tweaking but a very interesting development.

# Among Control Officer Homests. Benga to Garpet, One Rook, in passe govice.

#### **Action Stations**

Internecine, £29.99
Heavyweight, text only
'firepower and damage'
simulator. Incredible amount
of detail, down to the calibre
of the weapons, and the
thickness of armour plate.
Very accurate but lacks in
playability. Designed for purists, who rave about it.



Fighters from Midway attempting to intercept the incoming Japanese fighters and bombers.

Oh no, the bombers got through anyway! Midway takes a pounding from the Japanese carrier's bombers. The long range search pattern of the US Navy's 'long arm', the PBY5 Catalina, is certainly worth a look. Time for a successful vengeance! Allied dive bombers attack the Japanese Fleet carriers with gusto!







# It's a flying experience you'll never forget

We were just kids really and it was our first time away from home. We had 25 tough combat missions to complete before we finished our tour.

We called her a Fortress but she sure didn't seem like one when we were stuck in tight bomb run formation over the enemy target with devilish black flak clouds bursting all around us.

Then, after the bombardier yelled 'Bombs gone!' the mad scramble for home. All ten of us watching for bandits and calling them out: 'Tail gunner, belly gunner, right-waist gunner' as they swept past spitting out shells.

When we had a good run, knocked out a few fighters and were approaching the English coast, still in tight formation; that's when she felt like a Flying Fortress.

#### **B-17** Flying Fortress.

Command the supreme daylight bomber of World War Two, navigate accurately across Europe, locate and bomb strategic targets and defend the plane from furious enemy attacks.

It's a flying experience you'll never forget.



**B-17 Flying Fortress.** 

Released first on IBM PC Compatibles, followed by
Commodore Amiga and Atari ST.

MicroProse Ltd. Unit 1 Hampton Road Industrial Estate, Tetbury, Glos. GL8 8LD. UK. Tel: 0666 504 326. he software upgrade has been a feature of business programs for years: Microsoft Word is now in its fifth version, WordStar in its sixth, Lotus 1-2-3 in its third

(but with many decimal points along the way).

Games, however, have a one-shot history; a single attempt to get it right and too bad if the bugs turn out to be more than minor irritations. At last, that seems to be changing, if slowly. Nowhere has the demand for upgrades been more vocal than among the buyers of Spectrum Holobyte's Falcon 3.0. Although acclaimed by many, including PC Review itself, as the greatest flight simulator of them all, the first release was very much a flawed masterpiece. From the hard disk installer to key areas





# Falcon 3.0c

like gameplay and sound, the first release of version 3.0 was seriously bugged. (Version numbering breaks down a little with Falcon, since each release has effectively been a complete new product with little in common apart from the name.)

Version 3.0 was already late when it first shipped at the end of 1991. To its embarrassment, if not shame, Spectrum Holobyte apparently rushed an unfinished version to market in an attempt to catch the Christmas sales bonanza. To its credit, the company has worked feverishly since in an attempt to put the problems right.

The latest release provided by distributor MicroProse is designated 3.0c: actually the second bug-fix because version3.0b was never officially released. Still this is not definitive: at the time MicroProse supplied the package, fix 3.0d was available from on-line services like CompuServe and CIX. In our original review, we highlighted several problems – notably the problems with the installer and the sound routines. In version 3.0c, both have been fixed. The installer now works flawlessly, and the sound works as advertised.

A number of problems, bugs and design flaws alike, not highlighted in the first review, came to light much later. Because of the immense complexity of the simulator, many of these were so subtle as to escape detection for weeks. Most of these have also been fixed in 3.0c, and virtually all (apparently) in 3.0d.



These ranged from the serious: bugs that caused successful missions to be marked as failures; to the bizarre: B52 bombers being given insufficient fuel to reach their targets so bombing missions could never succeed. There were a host of other flaws, too; most of them minor but still frustrating for dedicated flyers. The good news is that Falcon 3.0 is now the program it should have been all along – but one or two problems remain. They aren't bugs, and most of the blame can't be attached toSpectrum Holobyte, but they still prevent Falcon 3.0 rating a perfect 10.

One that can be pinned on the developer is the poor sound support through the built-in speaker although this may seem like quibbling given the tremendous digitised speech and sound Spectrum Holobyte has provided for owners of Soun d Blaster, Ad Lib and other add-on sound systems.

The first release of v3.0 was criticised for demanding far more technical expertise of the average user than it had any right to, and our review called for much more explanation of the issues involved. The new package includes a much-expanded guide to installing the program, and does a better job of explaining tough subjects like the differences between extended and expanded memory, but it still needs more.

Even if you have sufficient memory, appropriate sound hardware, and a suitable memory manager like QEMM, you may still need to devote long hours to fine-tuning your Autoexec. bat and Config.sys files before it all works satisfactorily.

In many ways Falcon 3.0 can justly claim to be "the state of the art". The graphics are stunning, the gameplay is vast, varied and gripping; and the presentation, with its digitised sound and speech, short bursts of digitised video, and excellent spot graphics is second to none.

But no game that provides as much challenge in the installation as it does in the playing can claim to be perfect. Falcon 3.0 is the best, but there's still room for improvement.

• At the time of going to press, it was unclear how Microprose planned to deal with upgrades to release 3.0c, and to 3.0d when it becomes officially available, for customers who bought the original version. We suggest you contact the company on (0666) 504326 for details.

PETER WORLOCK





# ne Games

### **REVIEWED THIS ISSUE**

**FALCON 3.0c (UPDATE)** 



LURE OF THE TEMPTRESS





**HEROES OF THE 357TH** 





**ETERNAM** 



**EUROPEAN CHAMPIONSHIP SOCCER** 



**WIZARDRY VI** 



LEATHER GODDESSES OF PHOBOS 2



**NFL FOOTBALL** 



**CARRIER STRIKE** 



**EPIC** 



VIRGIN CD-ROM COMPILATIONS

MICROPROSE CD-ROM COMPILATIONS

### PC REVIEW'S BEST BUYS

This month's PC Review Recommended games are Lure of the Temptress and Heroes of the 357th. You'll find these titles on specially dedicated racks in 100 of the leading software stores around the country. Set up in conjunction with Centresoft, the PC Review Recommended scheme helps you to make the right choice when it comes to buying your games.

Previous games to have received the PC Review Recommended accolade are:

### **ULTIMA UNDERWORLD**

Origin, £39.99

A departure from the top-down isometric viewpoint of the other Ultima games, this spectacular role-playing adventure features the best 3D engine yet seen on any game of this type.

### DUNE

Virgin, £35.99

The graphics in this game of the David Lynch film of Frank Herbert's greatest book are nothing short of stunning. As Paul Atreides, manage the resources of the desert planet to overcome the evil Harkonnen clan.

### **SHADOWLANDS**

Domark, £35.99

The best British role-playing game to date, Shadowlands features a unique lighting system which creates truly atmospheric locations and situations. Tackle dangerous creatures and fiendish problems with a carefully created party of adventurers.

### INDIANA JONES AND THE FATE OF ATLANTIS: THE ACTION GAME

US Gold, £29.99

Indy is back in a fourth adventure created specially for computer games. His task is to discover the secret of the lost city of Atlantis before the Nazi's beat him to it.

A QUICK GLIMPSE ...

**Ultima Underworld** 

Dune

**Shadowlands** 

**Fate of Atlantis** 









# at Got Away



### WHATEVER HAPPENED TO ...?

If you've eagerly turned to the review pages to check out a game that has been previewed and advertised recently only to be dismayed by its absence, you'll probably find it in our lame excuses' Hall of Fame.

### ACES OF THE PACIFIC

We were starting to wonder whether this sequel to Dynamix' Red Baron was going to get off the ground at all. Stories of impending delivery from the States then developed into administrative problems on this side of the pond. Fortunately flying ace Robin Matthews managed to shoot down an early copy and will be bringing you the definitive report in the next issue.



# INDIANA JONES AND THE FATE OF ATLANTIS: THE GRAPHIC ADVENTURE GAME

The latest mouthful from LucasFilm has also been taking its time finding a passage across the Atlantic. Our mouths have been watering ever since we caught sight of a playable demo and finally the finished disks landed in our mail sack this week. Read the review next month.



We would love to be able to review every game that ends up in our postbag, but if we did that PC Review would soon turn into an expensive doorstop. So we compromise by reviewing an interesting selection from the software available, not necessarily the best! But to keep everyone happy here's a quick round-down of everything else that should be in the shops soon.

### **TENNIS CUP II**

Loriciel, £29.99

The box hails this game as 'highly realistic', not so. The control of the sprite is the poorest I have seen on a sports simulation, where you would expect it to be top notch. You may be surprised to hear that this does not make the game more difficult. It is far too easy to win a match, as by pressing the space bar or fire button at the correct time, your player will run about the court for you. You can also use the cursor keys occasionally to direct the path of the ball. An odd addition to the game is a court diagram, which doesn't help whilst in the heat of the action. Finally, inadequate graphics put an end to the game's chances of being a serious contender to Pro Tennis Tour's crown.

### THE DARK QUEEN OF KRYNN

US Gold, £32.99

Readers who are familiar with the likes of Champions of Krynn and Death Knights of Krynn will struggle to find anything new in this average RPG. It has an almost identical control system to its predecessors, the main difference being in the story-line. Once again you face the Dark Queen as the plot takes you across the sea to Taladas. The menu system is easy to learn and use, even for beginners. As it

stands, Dark Queen of Krynn is an enjoyable and challenging game and would be a worthy addition to any collection. Having said that, the other games in the series are so similar that if you already own one of the Dragonlance collection, this game won't offer you anything new.

### SPORT'S BEST

Loriciel, £24.99

Sport's Best, or more appropriately 'Sport's Worst', contains one of the poorest driving games I have ever played. The car in Turbo Cup has a tendency to roll over when it turns a corner, the control being too poor for a driving game of this type. Additionally, the pit lane is too short to stop in when travelling at high speeds, which, since the object of a racing game is to drive quickly, is somewhat pointless. Unlike its sequel, Tennis Cup requires you to control the off-the-ball movements of your player. This provides a bit more of a challenge, but the controls are rather unresponsive at times. The last of the three games in the collection actually boasts some playability. Panza Kick Boxing attempts to liven up this dull compilation of games. You compete as a kick boxer in either one or two player modes, and is quite a challenging game when you . compete in a tournament. This compilation is one to avoid: there are better sports packs available.

ennis Cup II

**Dark Queen of Krynn** 

Dark Queen of Krynn

**Panza Kick Boxing** 



# **QED**

Welcome to another month of guides, maps, diagrams, solutions, hints and advice. With Heimdall to lead the way, we're bringing you four pages of Ultima Underworld tips, the continuing adventures of Star Trek and all the usual hints, tips and Help! queries ...

# HEIM

Continuing our trip into the mythical world of Norse warriors.

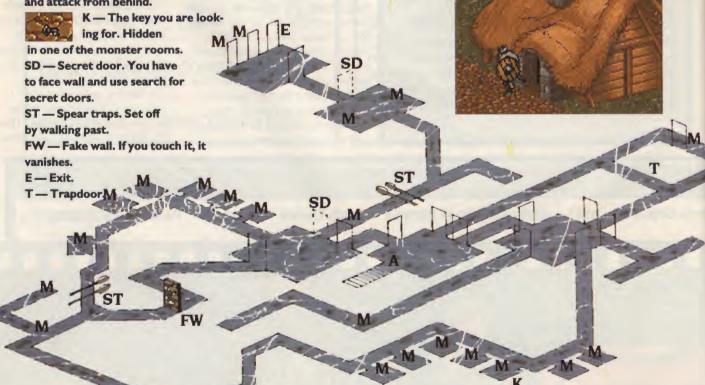
ide A is reached by means of leaving Island No. I, landing and climbing the steps to the summit. After a maze section through a marsh area, you reach the village of Gedsborg. You have to fight your way through to the entrance of an underground section. You may also reach section A via a bridge from section B, if you had sailed from Island No. 2. In that section is another village, Jerrsborg, a trading centre. At the start of your voyage, you have with you a small amount of tradable supplies with which you can barter for needed goods or info. Crossing from A to B is via a bridge on which stands a fierce warrior. He has to be defeated for you to be able to complete your quest.

### Beneath the village of Gedborg

A — From where you start the maze section.

M — Monsters. Some are positioned in the corridors, while others are hidden behind doors in the corridors. Should you open one of these doors, the monster will attack. If you walk past a door, the monster will open it and attack from behind.





# DALL

aze starts at point S. Simple small island with four chests hidden in a tunnel system of ditches, fallen logs and rocks.



CI — In chest I is a spell of illumination.

C2 — Chest 2 is trapped and is empty.

C3 — Chest 3 is trapped and is empty.

C4 — Untrapped plus a spell of replenishment.

C5 — Also untrapped and a spell of invulnerability.

Pits (P) and invisible pits (IP) are scattered over the pathways.



ST — Spear traps.

M — Mantrap.



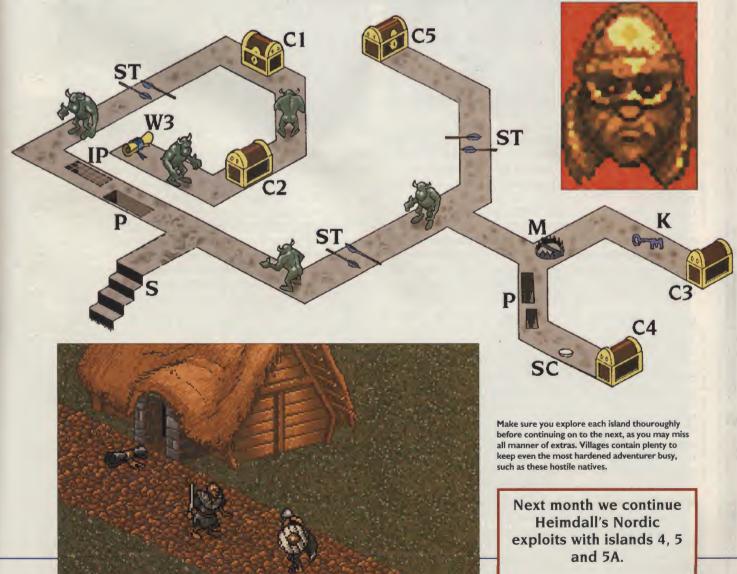
W3 — Scroll with clue for word 3. The third word is another name for a divine

being.

SC - Silver coin.

K — Key for Island 6.





After the mammoth Help! Wanted column back in Issue 8, we now bring you the mammoth Help! Supplied column to supplement it. Remember, we give software prizes for everyone who's reply is printed so please state your machine's specifications (disk size, graphic cards, sound boards etc.) to help us select your game.

Eye of the Beholder for Ashley Brady, Pinner: Now that you've found the dwarven prince you should take him up to level 5, to the area where you picked up Dohrum (by the way, if you've only just picked up the prince you are on level 10). You'll be given the wand of Silvias by the grateful dwarves and you can now go and kick Xanathar's butt. If the ring you found was on the same level as the Prince then it's the Ring of Featherfall. This means you won't be hurt when falling through holes.

Prince of Persia for John White, Berwickshire: To join up with your image, put your sword away (by pressing down) and jump into him. Do not attack him as you will lose strength points. Howard Roscoe, Cheshire



Prince of Persia for Nicholas Shelton, London: Move to the left of the screen where you will see a deep chasm. Take a flying leap off this and you will find that a path appears. Run along to the left.

King's Quest V for Alexander Noble, Newcastle-Upon-Tyne:

Open the pouch and you will find three emeralds. Go to the place where you squeezed the honey (to the left of the witch's house) and by using the stones as bait, capture the elf. He will give you a pair of shoes (for the cobbler) and leads you out of the forest. When you go back to the gypsy encampment you find that they have gone leaving the tambourine behind. Chris Callander, Marlow

Bard's Tale 2 for Stephen Naysmith, Edinburgh: The following is a map of level 4 of the starter dungeon which should be of some help. In addition, before you arrive at this level you should be sure to have encountered the winged creature on level 2. Allow him to join your party as he is needed towards the end of this final level. You also need a bard in your party. The following is a key to the map:

- This door leads to a section which is darkened by magic. There are two areas of interest (B and C). B — This is a regeneration square. Use it to regain those vital spell points for the impending battle.

C — This small room has a teleport square (to access D).

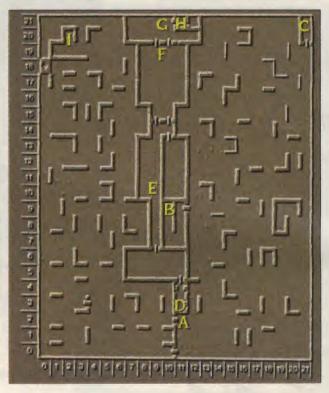
D — After teleporting, move north twice. You can now cast a light spell.

E — At this point you will encounter a chasm. The winged creature will then fly each member of the group across. F — At the double doors make your bard play the

watchwood melody.

G — Before stepping here it would be wise to save the game. Upon entering, you will encounter a lot of tough demons

H — After killing them you will encounter the princess.



Allow her to join the party and step east to be teleported near the entrance of level 4 (I). Make your way back to the start of the dungeon. Say 'old' to the fireball juggler. Raymond Chitolie, Wood Green

### The Adventures of Willy Beamish for Claire

Davis, Birmingham:

To get into the sludgeworks, two items are needed, the magazine from the bar in West Frumpton and a security card from the office in the plumber's union. To get the card, go to the union, open the window and climb in. Once inside, quickly take the security card from the desk. When Louis comes in, throw the plunger on to the floor and get out of the window. Next go to Willy's jet ski and remove the radio. Take the radio to the plumber's union and go into the telephone box. Put the box on the ledge and turn it onto record, then phone 432 7446 to record the horoscopes. Stop the tape and phone the Golden Bowl number and play the tape. Go to the bar, Ray will be on the phone so go in. Give the man behind the bar your lottery ticket and take the magazine from the bar. Go to the sludgeworks and give the magazine to the group of men. Go to the booth and give the security guard the pass and he'll let you in. Roy Roger's dog was called Bullet. Edmund Conway, Wimbledon

Are PC games just too darned hard for you? Then why not try out the PC Review Help! Wanted column? For the price of a stamp, an envelope and a sheet of paper, you can receive the answer to any query on any game. Alternatively, why not try our Help! Supplied column if you feel you can help someone out. Mark your envelope either Help! Wanted or Help! Supplied and for those that rescue a stranded soul you'll get yourself a free piece of software (tell us your machine's specifications).

# PC SOUND WAR WAR AND SOUND BOTH AND CONTROLLED TO SOUND TO SOUR PC



SOUND BLASTER



SOUND BLASTER PRO



**MULTIMEDIA UPGRADE KIT** 



**ACCESSORIES** 



VIDEO BLASTER

For a long time multimedia has been perceived as little more than a buzzword for expensive hardware and software add-ons beyond the reach of the majority of users. Things are beginning to change however as the Creative Labs range of affordable audio, video, CD ROM products and software/hardware accessories become more and more established as the prefered choice of business and home users of personal computers.

For as little as £100 the Sound Blaster card adds high quality music and digitised sound to enhance your favourite DOS and Windows applications. The Creative Multimedia Upgrade Kit launches the

traditional PC into the dynamic realism of sound, graphics and animation and includes Sound Blaster Pro, a high performance CD-ROM drive and 5 CD-ROM titles including Multimedia Windows for less than the price of many CD-ROM drives alone. Video Blaster is a full motion digital video card allowing you to combine video and audio resources from laserdisk, VCR's and cameras and overlay them with VGA graphics.

For working, learning or playing, personal computing will never be the same, to find out more send for a free information pack.







### **WESTPOINT CREATIVE**

WESTPOINT CREATIVE, DELTA HOUSE, 264 MONKMOOR ROAD, SHREWSBURY, SY2 5ST TELEPHONE 0743 248590 FAX 0743 248199 BULLETIN BOARD 0743 360287

### A GUIDE TO THE STYGIAN ABYSS — **ULTIMA** UNDERWORLD



### PART ONE: STARTER **GUIDE AND LEVELS 1 AND**

Itima Underworld from Origin rightly claims to be the first true Virtual Reality game for the PC. Role-playing will never be quite the same as a result of this innovative games engine and there is no better introduction to fantasy games. So here is a guide to use as you take your first faltering footsteps in the ancient subterranean maze that is the Stygian Abyss.

### THE FOUNDING OF THE COLONY

At the conclusion of Ultima VI — The False Prophet, the war between the Gargoyle race and the inhabitants of the world of Britannia was resolved. The Codex of Ultimate Wisdom was placed in the Vortex, on the Isle of the Avatar and via two lenses, made available to both civil-

A new town of Virtue was founded on the Isle of the Avatar - actually within the Stygian Abyss. This colony was the concept

of one Sir Cabirus and was settled by a mixture of the various races of Britannia knights, trolls, goblins, seers, etc. The dream was of a new city to be created with the various races living in harmony and abiding by the usual eight Ultima virtues.

However, for unknown reasons the fledgeling city slipped into chaos and anarchy. The various races formed their own communities and separated on to different levels of the Abyss. Monsters and demons are to be found throughout the lower levels, and there is even a suggestion that the Abyss itself subverts the minds of any inhabitants.

### WRONGFUL ARREST

As the story unfolds, you are whisked off once more to the fabled land of Britannia, just in time to witness the kidnapping of Ariel — the daughter of Baron Almric. Unfortunately, as the guards arrive you are arrested as the culprit and put before the somewhat peeved Baron. In the best kangaroo court fashion you are thrown into the Abyss and told you won't get out until Ariel is freed.

The game proper starts with you on level one of the Abyss, facing at least another seven levels of goblins, trolls, ghouls and other extras from the cast of Nightbreed. Underworld consists of subquests on each level, and a main plot-line involving the finding of the eight talismans of Cabirus.

The initial character generation allows you to choose from various 'professions'. each having their own particular strengths and weaknesses. All professions appear able to use magic, so a fighter, or paladin seems a good choice. It may well be worth while re-rolling your character a couple of times to get the best stats.

### SKILLS AND MANTRAS

As you explore the Abyss, discover items, and solve quests you gain experience. These points will eventually raise your character level. Most levels of the Abyss have at least one shrine — if your stats have increased you can visit the shrine and chant 'mantras'. Each mantra will increase a particular skill or skills. These increases vary (especially with the 'multi-mantras') so it is worthwhile taking a save, chanting the mantra and checking the result. If it is not the maximum advance, restore your save and repeat the chant. In this way you will get your stats up very quickly.

The initial mantras are listed below:

SUMM RA — attack (various) MU AHM — mana/casting/lore OM CAH — various HUNN — dealing UN - bartering LON - repair LU - eyesight ANRA — defence SAHF — Tracking



- Sack (food. dagger, map, torch) 2 — Sack (candles,
- mushroom, cudgel)
  3 Bowl, axe, torch ORT and IUX
- 5 Pack (scroll, rune bag (BET, IN, LOR and
- SANCT stones), red key) Food, leggings
- Bedroll 8 — Rotworm, wooden shield, lever to open
- door at A 9 Shortsword

- 10 Two poles, sling,
- cauldrons
  11 Bragit's cell, pole
- "Keep Out" Three spikes
- leather gloves, food
  14 Leeches, red gem
  15 Wolf spider
  (thread), leather vest
- 16 Pipe, food 17 Goblin
- 19 -- Vernix

cudgels

- Chest (MANI and YLEM stones)
  21 — Goblin fight,
- 23 Bottle of Water, red gem
  24 Levers
  25 Korlanars grave, resilient sphere, unblemished sceptre
  26 Crystal ball
  27 Plants, green potion 28 — Lockpick 29 - Candle 30 — Drog A — Locked door (lever

B --- Bragit

- C Serviceable silver cowl
  D — Goblin encounter
- Entrance Magic fountain
- G Gulik H Hagbard

- Ketchaval K — Stone key 2 L — Oll flasks
- Stone key locks Silver sapling Grand staircase

The first couple of advancements should be concentrated on your magic abilities the mantra MU AHM affects three possible skills - mana, casting, and lore:

Mana is the number of spell points you have available. The more mana you have left, the more and higher spells you can cast.

Casting is the 'skill' of spell-casting. The higher your casting ability, the higher your chance of success with a spell (as opposed to a dull phut or worse still, a backfire!)

Lore is the ability to identify items the better your lore rating, the more detailed will be your assessment of an item. Often that ring you threw away on level two ends up being the 'Magic Ring of Poison Resistance' — if only you'd known.

### **SECRET STORES**

During the game, inventory management is important. You are limited in the number (and weight) of items you can carry. To avoid dropping items willy-nilly it is good practice to make a series of 'ammo dumps' to put items in for later. If not you may find yourself in the latter stages charging round each foot of the 25 odd miles of the Abyss looking for a particular musical instrument, that you remember putting down somewhere. Ideally make these 'dumps' in an enclosed room to avoid the Abyss locals having a finders-keepers sale.

With regard to lore, this may take some time to build up, a good alternative early on is the spell — name enchantment (WIS YLEM). This should avoid you throwing away useful items.

Magic is cast by having enough mana and by possessing the correct rune stones. These stones are found throughout the game — it is worth exploring as much of a level as possible before moving on those rune stones on level two might well have been very useful on level four!

A degree of dexterity is required to succeed in combat - especially later in the game. Practise techniques on the riff-raff now, in particular, experiment with the three types of attack (thrust, bash and slash) and also with full power (slow) blows and half-power (quicker) blows.

Don't be afraid to leg it at this stage if things are too tough. The monsters won't go away and later they may be child's play.

The default interface is worth sticking with until it becomes familiar and the combat system must be practised. The mace is a very useful weapon/skill and will open some locked doors. On the other hand there are some very potent swords later on - which ever you decide to develop, stick to it - you will need to get your sword or mace skill up to 25-plus!

Finally, some general points on combat. Poison can be annoying. Leeches are dotted throughout the game and will cure poisoning, as will certain potions. Time will also cure, but only if your character has enough vitality.



- Sapphire Excellent leather gloves, oil
- flasks
- Yellow key, three gems Spiral room, red and green
- Six Goblin fights Barrel (Mace, red potion) Bow, gloves, sling and

- Candles Wooden shield
- 10 Hunn scroll
  11 Mandolin, leeches, port,
- torches, food, corn, ale
- torches, rood, corn, ale
  12 Pouch (incense), torches
  13 MANI and HUR stones,
  excellent mace, scroll (IN
  SANCT defence)
  14 Scroll (RA mantra for

- better attack), spike 15 Scroll (UN mantra for
- better deals)

- 16 Small shield, battle axe,
- 17 Green and grey
- 18 Lantern, oil, spike, boots 19 Crown, rock hammer, coin,
- cowl
- Supply room Mountain man
- 23 -
- Quarters of Corby
- Quarters of Mondor 25
- Daylight scroll
  Golem, treasure trove 26
- Steeltoe
- 27 28 - Shak
- Hewstone
- 30 Dangerous understow 31 Wand, boulders
- 32 Empty box 33 Rock hammer, oll, fishing

- Mail shirt
- Better eyesight mantra -LU
- Gemcutters amulet Six spikes, blueprints,
- UUS stone
  A The golden maze
- B Ironwit C Goldthirst
- Chipped gem, inset key
- Leeches Machine room (from level
- five)
- G --- Shrine
- The spiral room Light green potion
- J Use rod to open portcullis (levers behind)
- Blocked stairway
- Orb
- M Chipped gem locks
- pole 34 POR and YLEM stones

### TRUTH, COURAGE, HONESTY AND ALL THAT

You must also remember that you are the avatar - a thoroughly nice chap/lass. You should help old ladies across the road, take thorns from out of trolls' feet etc. The eight virtues are how you live. Do not steal items that are described as belonging to a character or race. Other items that are not described as belonging to anyone appear to be fair game. This must be followed - otherwise you may end up having to slice up a NPC who would have told you about the ...

The abyss is a dank, damp, dark old place and you need a form of light. Lanterns throw off much more light, for longer, than candles, but one of the talismans is in fact an endless provider of light.

### THE LEVELS — A GUIDE

Remember, each level has a series of subquests and there is the main quest of recovering the eight talismans of Cabirus:

The Book of Truth

The Ring of Humility

The Cup of Wonder

The Shield of Valour

The Standard of Honour

The Sword of Caliburn

The Taper of Sacrifice

The Wine of Compassion

### LEVEL ONE: THE GOBLINS

evels one and two of the abyss are really introductory, designed to get you used to the interface and combat system. On level one make sure you speak to Bragit and that you also find and re-plant the silver sycamore. This is both an insurance

# QED ULTIMA

policy and a handy method of transport.

The ankh room is in the south east corner of level one and entry is a little tricky. From the main passage, ie, to the south of the locked ankh room door, jump north on to the column. Now face east and iump on to that column. If you now face south you will see a secret alcove with a button. Using the button will open the door to the ankh room. Now all you have to do is jump back!

Swimming is useful to get to some hidden areas, but if you're going blue in the face, be careful. You are drowning! Another of the shrine mantra's will help you out here. The waterways are the home for lurkers. These are more of a nuisance than anything, particularly as you cannot enter combat mode whilst swimming.

If you 'lean over' from dry land, you can sometimes fight the lurkers, but the best method is to use either the magic arrow (ORT JUX) or lightning (ORT GRAV) spells to blow them out of the water. Be careful though, some of their later relations are a bit tougher!

### **LEVEL TWO: THE** MOUNTAIN FOLK

he game really starts now, this level having two sub-quests. The first involves the absent-minded and well named Ironwit. He's lost his A to Z of the abyss. This is quite a tricky problem, you need to solve the spiral room, the golden maze and also need to study the excellent auto-mapping very carefully. Hidden doors will be shown on the map (again your skills help here) and the solution to this problem is a 'tall story'.

The second sub-quest is a contract from the king of the mountain-folk. They are plagued by a beholder-type creature in the mines. Some flintstone technology will put you on course for a tough fight with the gazer, who can be dispatched. This quest must be completed as it ispart of the main

The mines are worth exploring in detail so take the plunge! Shak is definitely worth knowing and will be needed to make whole that which is now in two. If you haven't found either part don't worry, it's early days. By this time your character should have gone up a level or two so use the save/mantra/restore routine to your advantage.

Don't spare the rod if matters appear out of your reach (you should have had



this clue back on level one). This will give you sight of things to come, but take your time while you can — things are just about to really start happening.

### LEVEL THREE: THE LIZARDMEN

evel three is the domain of two species of lizardmen (green and red) and a splattering of banditos. Don't tolerate the latter: they should be sorted out whenever met. You will enter the level from the north, to the middle. A series of teleports will flash you round the area, but pause for breath after the first teleport. This will allow you to explore the central section, in particular to find a shrine and also a phobic personality. This will be an illuminating experience later on.

Down south you will find lizards of both races, but their common language will be a mystery. In one of the rooms is a prison cell, in it is a wretched creature - Murgo. He is assistant of the seer Dr Owl, who resides on level six. Murgo is dumb, but can understand the lizard tongue. By a

series of charades and trial and error, you will develop a working knowledge of the lizard language. If not, read below:

### THE LIZARD LANGUAGE

Bica - hello, goodbye

Isili — me

Eppa — visit Thepa — lizardman

Thesh - like

Yethe - kill, murder

Sstresh - help, aid

Thes'click - dislike, hate

Sel'a — give

Zekka — food

Sorr - enemy

Kri'kla — monster

Sseth — yes

'Click - no

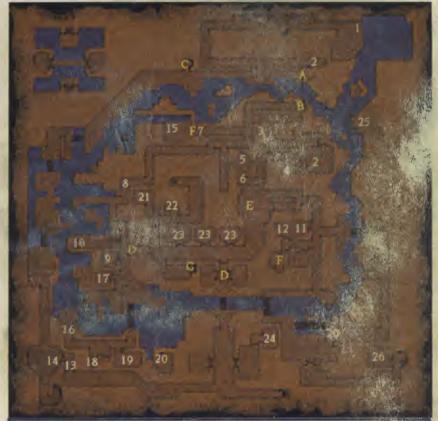
Sorra — steal, take

Yeshor'click — friend

Ossili — enough

Sor'click — stranger

This will allow you to secure the release of Mungo — and at a later stage Dr Owl will be so impressed by your efforts he will



- Leather vest, plant, torches
   Lever (default is down)
   Boots, shield, lantern, leggings (lever at 2 creates rats)
   Go to the base of the Abyss
- then battle your way up

  Lizard key (red), DES stone,
- food, candle
- food, candle
  6 Scroll (look for thleves hideout behind storage room), gold key E & W.
  7 ORA mantra for unarmed
  8 Bandlt encounter, lantern, sword, boots, "Tom loves Judy"
  9 Light mace, leggings, gold
  10 Lizard key (green), green potton
- potion
  11 ANRA mantra to protect

- 14 Buttons (see 15)
  15 In plants (left, right, centre)
  16 Book (FAL for better nimbleness and tumbling), green
- 17 Magic crystal eposes hidden tombs and monsters 18 Grey Ilzardman 19 Ishtass

- 19 Ishtass 20 SANCT and HUR stones, book and scroll (Search for blade in south-east. Behind wall secrets are. Ask Shanklick about crazy wizard. Scroll to Ossikka.) 21 — Book (SAHF mantra for tracking), POR and ORT stone,
- opotion Quiver, crossbow, torches Green lizards Wand, REL stone, rubles,
- thleves hideaway 25 Breastplate, lantern, gold 26 Blade

- Teleport to B
  Teleport from A, teleport to
- - Teleport from B

     Green lizard lock

     Various lizardmen

     Shrine

     Mad wizard

# DERWORLD



assist in finding a Talisman. Once you've completed the language course, make sure you speak to all of the lizard folk.

Level three contains several of the talismans, only some may be available at this stage of the game. The blade of the Sword of Cabirus is here, hidden in the south east corner. You are given clues and the map printed here should move you in the right direction.

Several runestones are waiting to be discovered: in particular the WIS stone that may not be found elsewhere.

Finally for this level, don't forget a bit of wall-banging to find the thieves' hideaway.

### LEVEL FOUR: THE KNIGHTS OF THE ORDER OF THE CRUX

his is a very busy level with several subquests, various puzzles and some tough fights. Firstly, remember not every creature is an enemy - it's good advice to look at your opponent, if not 'hostile' it is unlikely to attack and may have important information.

If you are in combat, look at the colour of your opponents' eyes - if they are red he's in real trouble. Also use the I and 3 keys to lower or raise your plane of attack and use the most appropriate form of blow there's no point trying to whack a high flying mongbat with a low thrust!

Also, most of the creatures are pretty stupid and suffer from rushes of blood. If you face several monsters, try to get into a narrow corridor — the ones in the front will probably be injured by those behind.

There is also a suggestion that you can jump in combat (| or shift-|) and can also push enemies off cliffs or into lava flows. Not many creatures can swim, especially in fire, so manoeuvring them into the water or lava is an interesting tactic.

Finally (and not very Avatar-like), it does appear that when you attack from behind you do extra damage.

Use the shrines for promotion, concentrating on combat and magic skills.

The main inhabitants of level four are the Knights of the Order of the Crux. These are found in the southwest corner of the level and you should seek out their leader - Dorna Ironfist. Their order is steeped in chivalry and the eight virtues and membership is a prerequisite to progress. Several tests and quests will have to be completed to show your worthiness. It is worth speaking in length to each of the knights - most will tell you a combatorientated mantra.

### MORE MANTRAS

GAR - axe RA — attack ORA — unarmed ROMM — traps KOH - mace FAHM - mssile



- Lakshi scroll
- Lantern
- Dead rotwrom
- Rawstag (opens door to
- 6 --- Shrine
- Siffine Silver ring Lakshi Longtooth AN and JUX stones, green
- potion 10 Skull and bones
- 11 Kyle, Doris 12 Meredith
- 14 Dorna Ironfist 15 Derek
- 16 Feznor 17 Tricsh

- 18 Ree 19 Maze contains many chambers one is said to lead to a chamber once used by
- Knights. Lorne went to the homeland of the Trolls. To pass into the unseen, Jump through the seen. Maze is locked with a key thought to be lost. The Knights of the North have a hidden counterpart. Bullfrog puzzle has a simple solution but there's more than meets the
- eye. 20 Bottles of port and ale.

- 21 Biden 22 Obsiden key, jewelled sword (after defeating the Chaos Knight), thirty-seven coins 23 Knight's standard, twenty-
- three coins 24 Chain gauntlets
- 25 Golden goblet, red potion 26 Locked chest
- 27 Serviceable longsword, Fireball scroll 28 Mail shirt

- 29 Oradinar (fishing pole) 30 Pouch (QUAS, IN and AN
- stones, diary of a seer)
  31 Oil, mushrooms, green
- potion 32 Gold key lock

- 33 Boulder 34 Sethar Strongarm 35 Grave of Sir Ingvar, golden
- Office of Troll Watching
- --- Treasurer
- D Armourer E First Officer

- Graves of Sir Elonir and Sir

AAM — picklock MUL - sneak AMO - sword

Derek is keen on jewellery, so a reward from level two will stand you in good stead and reveal another talisman. Trisch will tell you of the taper, so it's back to Zak who may be in the dark. Level four also contains many puzzles. These include the bullfrog, the maze of silas and the door of levers. Make sure you speak to Feznor who will give you info on all of these.

The door of levers is a grave problem, if you get my drift! The maze of silas is really wall-banging, but the bullfrog is tricky. Be careful as you are only allowed a couple of turns before it jams. If this happens, use the wand to re-set. Most of these puzzles can be solved in an easier way later in the game.

Sethar can make you a useful item, but first you must whet his appetite. Lanugo the goblin has the correct formula

The puzzles above can only be accessed once the chaos knight has been attended to. this fight is finely balanced — dispose of the audience first to avoid distractions.

By the time you've finished level four, you will be tired and far more experienced. Time for bed — and the shrines.



TO BE CONTINUED



# QED STAR TREK: 2

Space ... the final frontier. These are the voyages of the starship Enterprise, its continuing mission to explore strange new worlds, to seek out new life and new civilisations. To boldly go where no man has gone before



Captain's Log, Stardate 5011.6: Starfleet has received reports of increased Elasi activity in the Harlequin system. As the Enterprise is the nearest ship in the sector, we've been assigned to investigate. After our previous encounter on board the USS Masada, I can't say that I was looking forward to meeting the Elasi again. My fears were realised when we were attacked by two of their number upon entering the Harlequin system.



The Elasi appeared to be attacking a small trading craft when we interrupted them so we followed the trader's trail to the nearby Harrapan system to find out why. I now wish that I hadn't bothered as the trader has turned out to be none other than Harry Mudd. After checking the computer on his recent nefarious activities, Spock, Bones, Lt Buchert and myself are beaming over to his ship to find out what's going on. If Mudd's involved ...



Harry's story about Miracle De-Grimers is a little hard to swallow, especially when the attachment of a single lens to one of the damned things turns it into a pretty powerful hand weapon. On a more serious note, Spock's initial observations are that this is a completely alien ship, with technology far in advance of our own. I've discovered a small golden sphere that appears to be some kind of computer interface.



The engine room to the south house Mudd's dodgy Sav-A-Ship life-support device. If we don't find a way to repair soon we may need to beam out of her before it explodes. It seems, however, the the Enterprise is having some difficult with the Elasi again and has raised he shields. We are going to explore the northern half of the ship while Scotty fighting the pirates. We'll have to hope can finish them off before we all go u



Captain's Log, Stardate 5097.3: Starfleet have had reports of a mass Klingon force mobilising in the Hrakkour sector, apparently searching for a renegade criminal. Intelligence has picked up traces of a craft fleeing from Hrakkour to the Digifal system, which just happens to be Federation space. The Enterprise has been ordered to find out what's going on before the Klingons invade our space and provoke another war.



We arrived at Digifal to be greeted with a Klingon Battle Cruiser ordering us to back off. I explained to Captain Taraz that he is in violation of treaty by being here and he agreed to let us handle the situation. After consulting the ship's computers on all the available information, the Enterpise has entered standard orbit and I am beaming down to the planet with Spock, Bones and Lt Stragey of security. We'd best be ready for anything down there.



Immediately on materialising, we were greeted by a strange looking man in a white cloak. McCoy checked him out to find him almost human ... almost. I informed him that the Klingons were after him and he responded with delight, at least until I told him of their violence. He claims to be the ancient Aztec god Quetzecoatl and refused to believe my accounts of his 'people' on earth, claiming that he is all for peace.



As if to punctuate the fact, he instant transported us to a deep pit to learn the error of our ways. After a quick spot vine manipulation, snake catching (the to a rock in front of its hole) and good baseball pitching, we managed to esco from the pit. Trekking back through th jungle, we were suddenly confronted by follower of Quetzecoatl, demanding w prove ourselves. I allowed the snake to me to prove our strength.



Captain's Log, Stardate 5103.2: We have been sent to Alpha Proxima to observe the arrival of the Scythe asteroid in the area of Proxima III, a world currently under observation pending entry into the Federation. The history of Proxima, according to Mr Spock, is somewhat similar to the tales of the Greek gods of Earth. The computer was able to provide all sorts of fascinating reading material while we travel to the area.



The Sofs' and the Lucrs' fascination with base three and base four numbers may be important to understand these races. Entering orbit around the asteroid, I beamed down with Spock and McCoy and started investigating. No sooner had we arrived than Scotty informs us of a virus in the computers, disabling the transporters and working its way through the rest of the systems. Taking a few rock samples we headed for a strange door.



Spock revealed that to open the door we'll need to work out the correct combination. Since this is appears to be a Lucr construct and they are fascinated by base three and the number 99, we surmised that the code was 10200 (99 in base three). The door opened and in we went, only to be confronted by another door. Scotty has informed us that it will take at least three hours to fix the Enterprise. I'm not sure we have that much atmosphere on the planet.



Applying his usual technical expertise t the consoles, Spock has unearthed a worrying fact. Apparently this 'moon' w used as a missile base by the Lucrs again the Sofs and it's due to launch anoth attack, unaware that the war is over Normally we would just destroy the plo but as this moon is a major religous its and the prime directive states that we cannot interfere with a non-Federation planet, we'll have to find another way

# 5TH ANNIVERSARY Preview

And these are the voyages of the starship QED, its continuing mission to bring solutions to the toughest of games. What follows are the final extracts from the log of Captain James T Kirk from the 25th Anniversary missions.



According to Spock, this ship's weapons system is extremely powerful and could be beamed aboard the Enterprise by Mr Scott. To the north is the sick-bay, the bridge and a computer room. The main power base is down but Spock suggests using his and Bones's tricorders to access the computer. We also discovered a small repair tool that belongs to Mudd in the bridge area. I'd best hang on to it as it could fix the Sav-A-Ship.



Spock has been searching through the alien's bridge and computer to find out about this new species. He's also managed to find a picture of them that he displayed on the screens. Making our way back to the sick bay, we discovered Harry going through the various chemicals. As if fate decreed it, he accidentally smashed a canister and had to be subdued by Spock's neck pinch and treated by Bones and the alien medical computers.



With Mudd out of the way, we felt it was best to get the Sav-A-Ship under control. The Doover did the trick and has allowed us more time to explore the bridge area, now that we have power from the computer system. Spock managed to scan for the Enterprise and the ship's communicators picked up Mr Scott who is ready to beam us back. Before we go, however, I think I'd best have a word with Harry. He almost cost us this ship.



Captain's Log, Supplemental: I think Harry messing around with unknown technology. Before we left I convinced him to 'donate his finding to the main university complexes in the Federation and cautioned him on the legalities of scavenging. He seemed to have learned his lesson, but just like the Elasi, I have a nagging fear that we've not seen the last of Harry Mudd.



He gave us a ceremonial dagger and let us pass. We came to a lake where Bones's tricorder showed the presence of a living creature under the water. Using a poisonous plant growing next to the lake we warded the creature off and crossed the log. In the next cavern, Spock's tricorder picked up readings of dilithium crystals and using the dagger we were able to retrieve a sample. The next corner led us to Quetzecoatl, who wanted to talk.



Basically, Quetzecoatl wanted to become mortal, by undertaking a medical operation by Bones. If we could convince the Klingons he was no longer a threat, we could avoid this war. The only way to do that was to travel to the Klingon world of Hrakkour and face their court. Naturally, the Klingons are very suspicious and the only way we were going to convince them was to undergo a series of trials, to prove



We started by facing some kind of electrical creature, blocking our way forward. Using my phaser to melt some rock, then coating a rod with the molten liquid, I created a makeshift energy absorber which drew the creature into it. Contacting the Enterprise, Uhura Informed me that within the door code was another code of uknown purpose. I ordered her to transmit both codes at the same time and we were teleported to a strange chamber.



Within the chamber was a glowing sphere, several large gems and some kind of console. On the advice of Spock, I inserted three green gems. I then entered the yellow beam and related our mission to the strange entity that was present. This was a being of immense power as no sooner had I finished than Admiral Kenka was beamed in and sentenced to death. I intervened making a deal for the release of Quetzecoatl. Naturally he agreed ...



the combination (122 - 17 in base three, Scythe being the seventeenth letter in the Lucr alphabet) and we were presented with two more doors, one needing a security card to open, the other leading to a workshop of sorts. Uhura informs us that they've found a cure to the virus, from the Klingons of all places, and are working on repairing the ship's systems. I just hope we can do the same here.



exit, I assume that the missiles and their launching mechanisms are kept behind it. Spock thinks that it might be possible to carve a security card out of the rock samples, using the laser drill. Taking the necessary readings from the lock mechanism, Spock has entered the correct settings and blasted a mould for the rocks to fit into. I've put the rocks in place and Spock has melted them into shape.



Also in this room was a box containing several long strips of cable. Taking them with us, we entered the main missile room and were quite taken aback by the amount of destruction available to the Lucrs here. The computers are all separate consoles but all do the same thing. Upon closer investigation, one of them appears to have a virus running through it, the same virus that attacked the ship. We must have picked it up during our scans.



If we could find some way of enabling the virus to infect both systems, Spock felt that it would cause the computers to fire the missiles harmlessly into space. Using the cables we linked the two systems together and Spock managed to enter the required numbers to mess up the Lucrs' plans. It's amazing what some people will do for what they believe in, although our own history wasn't exactly peaceful. Let's hope the future fares better ...

You don't have to be Einstein to get the most out of your Amiga with... **CU Amiga offers you** easy access to all the possibilities that your Amiga holds. Packed with a breadth of coverage beyond games, CU Amiga delivers -•The ultimate peripheral coverage. Extensive, clear guidelines on what's available, how you can use it and what's best to buy Unsurpassed hardware coverage. **CU Amiga** was the first magazine to regularly feature CDTV. •The best buyers guide. At least 33 pages packed each month with all the information about what's best •60 non entertainment products put under the microscope each month •100+ games reviewed every month. Beyond games with... **AMIGA** 

# CITIZEN

### ALWAYS A GOOD IDEA

Silica presents some great offers on the award winning range of high quality matrix printers from Citizen. Each Citizen printer is built in the UK to exacting standards, ensuring superb reliability and output.

Our confidence in Citizen's quality is such that we are pleased to include a 2 year guarantee with every printer. Plus, if you buy a Citizen printer (not inkjet) from us, we will give you the Silica Printer Starter Kit (worth £29.38), FREE OF CHARGE! FREE DELIVERY
Next Day - Anywhere in the UK mainland

FREE STARTER KIT
Worth £29.38 - With every Citizen printer
(excluding Inkjet) from Silica.

YEAR WARRANTY

Silica offer a 2 year warranty (including the printer head) with every Citizen printer from Silica.

WINDOWS 3.0 Free Windows 3.0 driver. Included with the Silica Starter Kit.

FREE COLOUR KIT
With every Prodot 9 and Swift 24e printer. FREE HELPLINE

MADE IN THE UK
Citizen printers are manufactured to high standard

### PRINTER LOW PRICE 9 PIN



144 CPS

80 COLUMN

- Citizen 120D+ 9 pin 80 column

- Citizen 1200+ 9 pin 80 coluin 144cps Draft, 30cps NLQ 4K Printer Buffer + 2 Fonts Parallel or Serial Interface Graphics Resolution: 240 x 240dpi
- Epson and IBM Emulation
- Pull tractor & bottom feed FREE Silica Printer Starter Kit

SILICA STARTER KIT £25 TOTAL VALUE: £224 SAVING: £109

SILICA PRICE: £115

The Citizen 120D printer comes supplied with a parallel interface as standard. If you require a serial interface instead, please state ref: PRI 2125 when placing your order with Silica.

PRINTER

(TIPLEN S

### **PRINTERS** 9 PIN



300 CPS

80 COLUMN

- OCITIZEN Prodot 9 9 pin 80 columbrates of the c - 80 column

RRP C180
COLOUR KIT £41
SILICA STARTER KIT £25
TOTAL VALUE: £255
SAVING: £66
SILICA PRICE: £189





80 COLUMN 192 CPS

- Citizen Swift 9 9 pin 80 column 192cps Draft, 48cps NLQ 8K Printer Buffer + 3 Fonts Parallel Interface Graphics Resolution: 240 x 240dpi Epson and IBM Emulation

- Colour Option available FREE Silica Printer Starter Kit



192 CPS 136 COLUMN

- Cilizen Swift 9x 9 pin 136 colun
  192cps Draft, 48cps NLO
  8K Printer Buffer + 3 Fonts
  Parallel Interface
  Graphics Resolution: 240 x 240dpi
  Epson and IBM Emulation
  Colour Option Available
  FREE Silica Printer Starter Kit

RRP 2329
SILICA STARTER KIT 225
TOTAL VALUE: 2354
SAVING: £105
SILICA PRICE: £249



### PRINTER + SOFTWARE + COLO

Citizen Swift 24e - 24 pin - 80 column 216cps Draft, 72cps LQ 8K Printer Buffer + 6 Fonts Parallel Interface

24 PIN

- Graphics Resolution: 360 x 360dpi

- Graphics Resolution: 360 x 360dpi
  Epson, IBM & NEC P6 Emulation
  FREE Colour Kit
  FREE Silica Printer Starter Kit
  FREE Lotus AMI 1.2 Word
  Processor and DTP package
  FREE Adobe Type Manager V1.15
  Lotus + Adobe software is for PC only on 31," disk



### PRINTERS 24 PIN



192 CPS 80 COLUMN

- Citizen 224 24 pin 80 column 192cps Draft, 64cps LQ 8K Printer Buffer + 4 Fonts Parallel Interface
- Graphics Resolution: 360 x 360dpi Epson and IBM Emulation Colour Option Available FREE Silica Printer Starter Kit

SAVING: £95 SILICA PRICE: £199





192 CPS 136 COLUMN

- Citizen Swift 24x 24 pin 136 column 192cps Draft, 64cps NLQ 8K Printer Buffer + 4 Fonts Parallel Interface Graphics Resolution: 360 x 360dpi Epson, IBM and NEC P6 Emulation
- Epson, IBM and NEC
   Colour Option Available
   FREE Silica Printer Starter Kit

### **INKJET PRINTER**



360 CPS 80 COLUMN

- Citizen Projet inkjet 80 column 360cps Draft, 120cps NLO 50 Nozzle Head Whisper Quiet 47dB(A) 8K Printer Buffer + 3 Fonts Optional HP Compatible Font cards Parallel Interface Graphics Resolution; 300x300dpi

- HP Deskjet plus emulation

TOTAL VALUE: £496 SAVING: £137 SILICA PRICE: £359

### NOTEBOOK PRINTER



**64** CPS 80 COLUMN

Company Name (if applicable): .....

COLUMN

Citizen PN48 Notebook Printer

Non-impact Printing on Plain Paper

53cps LO - 4K Buffer + 2 Fonts

Rear and Bottom Paper Loading

Parallel Interface

Graphics Resolution: 360 x 360dpi

Epson, IBM, NEC P6 & Citizen Emulation

Provered From Mains, Battery or Car Adaptor

FREE Silica Printer Starter Kit

SAUMS STANTER NT 125

TOTAL VALUE: 5350

SAVING: 1011

SILICA PRICE: 5240

\*\*ATT- C292 58 reit PPI 2100

# WORTH £29.38

SHEET FEEDERS

SERIAL INTERFACES CITIZEN PRINT MANAGER
WORTH £14.95 WAT
(LIMITED PERIOD ONLY) 32K MEMORY EXPN PRINTER STAND

0 1242 1240 224 Swift 9 24 1240 CHIGINAL RIBBON 9 3520 1200 Swift 9 Black quicker, colours more vibrant, raphics less fuzzy. Easy to use, rint Manager is supplied with its rwn instruction manual. Main eatures include:

COLOUR KITS
PRA 1236 224/Swift 9/24/246
PRA 1240 Swift 9x/24x

PN48 ACCESSORIES
PRA 1148 PN48 Battery. £51 7/
PRA 1155 PN48 Cable Extn. £ T86
PRA 1162 PN48 Car Adaptor £ T86

55F

### SYSTEMS SILICA **OFFER**

- FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.

  TECHNICAL SUPPORT HELPLINE: Team of technical experts at your service.

  PRICE MATCH: We normally match competitors on a "Same product Same price" basis.

  ESTABLISHED 12 YEARS: Proven track record in professional computer sales.

  BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available 081-308 0888.

  SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.

  THE FULL STOCK RANGE: All of your requirements from one supplier.

  FREE CATALOGUES: Will be mailed to you with offers and software/peripheral details.

  PAYMENT: By cash, cheque and all major credit cards.

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or software, or help and advice. And, will the company you buy from contact you with details of new developments and products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the curricular to reconstruct Expeliterature and herit to experience the "Silica Systems Septice". coupon now for our latest Free literature and begin to experience the "Silica Systems Service

MAIL ORDER HOTLINE



### 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111 Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608 MAIL ORDER: No Late Night Opening Fax No: 081-308 0608 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000 No Late Night Opening Fax No: 071-323 4737 Selfridges (1st Floor), Oxford Street, London, W1A 1AB Tel: 071-629 1234 Extension: 3914 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811 Late Night: Friday until 7pm Fax No: 081-308 0608 LONDON SHOP LONDON SHOP SIDCUP SHOP:

To: Silica Systems, PCRVW-0792-55, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX PLEASE SEND A CITIZEN COLOUR CATALOGUE

Mr/Mrs/Miss/Ms: Initials: Surname:	
Address:	
F	Postcode
Tel (Home):	Tel (Work):

Which computer(s), if any, do you own?.. E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.



# review Cover disk

What with the 1992 Olympics about to begin we've given you an opportunity to get the flavour of it all by sampling the diving event from Empire's International Sports Challenge. You'll also find a complete game, Jill of the Jungle, which we believe to be one of the very best shareware games to be released this year - we hope you agree!

# INTERNATIONAL SPORTS CHALLENGE

lympic fever is running high again as the countries of the world prepare for the 22nd Olympic Games. The whole experience will of course be thoroughly spoilt by petty political wrangles and athletes who are so full of themselves that they have forgotten the Olympics are supposed to be all about international cooperation and the spirit of achievement, not to mention corruption, drugs scandals and probably the weather. Still, you needn't let all that upset your summer, because Tynesidebased Harlequin has been hard at work creating International Sports Challenge for Empire. The complete game is a multi-event extravaganza, but, to give you a brief taste, you'll find a playable demo containing three of the diving events on the disk. (Sorry girls, you'll have to pretend to be a man for this demo, but see Jill of the Jungle below for some recompense). When the demo starts you must specify whether you want the EGA or VGA mode. The menu allows you to attempt each of the three dives individually or try them one after another as a medley. On the subsequent menus, only the dive that is highlighted can be selected. Make menu selections by using the cursor keys to move the indicator and pressing the space bar to select.

To start the dive, press the space-bar; the diver will walk to the edge of the board and begin the dive. While the dive is in progress, you must move the joystick left and right to make the outer ball on the circle in the upper right corner match as closely as possible the movements of the inner ball. Do not try and catch up with the inner ball if it gets ahead of you, just try to copy its movements exactly.

At the end of the round you are given your score and you have the opportunity to play the event again if you wish. You can see the dive demonstrated by selecting the demo from the top of the selection menu. If you do this the diver will execute the dive first before you attempt it. You can also to elect to have practice dives by changing the number indicated on the main menu.

### CONTROLS

Cursor up **Cursor Down Cursor Left Cursor Right** 

Space Bar

Move menu pointer Move menu pointer Move diver control ball Move diver control ball Select menu item/start dive





# How to load the

Those who are experienced PC users should check the quick installation guide below. If you're unsure how to proceed, read through the step by step instructions in this panel.

### Quick installation guide

Put the PC Review cover disk into your floppy disk drive and log on to it. Type

FRONT [Enter]

to start the menu and follow the on-screen prompts. When the program(s) have installed, log on to the relevant directory, and type the following to start the programs.

International Sports Challenge:

DEMO[Enter]

### CompuShow:

**CSHOW** 

### Easy Menu:

Please read the detailed installation instructions on page 90.

### Jill of the Jungle:

Please read the detailed installation instructions on page 90.

### Step by step instructions

Put your PC Review cover disk into your floppy disk drive.

Log on to that drive by typing

A: [Enter]



# **COMPUSHOW**

ompuShow is a program for viewing graphics in a variety of formats. When the program is started the screen shows a sorted list of the disk files on the current disk drive and sub-directory. If you loaded CompuShow from a floppy disk, you can remove the disk once the program is running, in order to mount other floppy disks.

The cursor is positioned in an input area near the bottom of the screen. Use the up arrow cursor key (or your mouse) to move up into the file directory.

Move the highlight bar around the list of files using the mouse or cursor arrow keys, PgDn, PgUp, Home or End. (Click the mouse above the top line of file names to page up or below the bottom line of file names (outside the input area) to page down.)

With the highlight bar positioned at a graphic file, press the space bar (or click the left mouse button) to view the picture. If you don't know which files are graphics, just try each one in turn. CompuShow will tell you if a file isn't a graphic.

If the image is larger than the screen, you can pan around the image by moving the mouse or pressing the cursor arrow keys.

Press Esc (or click a mouse button) to return to the file directory and you're back at the file list ready to select another file. If you now press Esc again (or click the mouse in the input area), the cursor will return to the input area. Press Esc in the input area to exit CompuShow and return to DOS.

Of course, you may have graphics files on a different disk drive and/or in a different sub-directory (and it's quite possible that there are no graphics files listed on the current directory screen). There are several ways to select a different disk drive and sub-directory:

a) Press F5, then C and a carriage return for a complete directory display, so that sub-directories appear on the screen (marked <DIR>). With the highlight bar at a sub-directory, press carriage return (or click the mouse) to move into the sub-directory.

b) Use Alt-A and Alt-B (hold down the Alt key and type a or b) to log in a new disk in floppy drive A: or B:.

c) With the cursor in the input area, type
 C: and press F2 to log to drive C: (or any other drive).

With these basic instructions you can switch to different disks and move around the sub-directories to select and display graphics images. Also remember that FI displays a help screen. In addition to this standard 'pick a file and display' method, CompuShow also allows you to:

• tag a group of files for display one after another

 display one or more graphics from the command line

 display a graphic and return to DOS with the image on screen.

You can find out more about the way the program functions by reading the detailed documentation that was installed with the main program. Setup.doc describes how to configure the program for your system, select a suitable video driver and delete unecessary files. Drivers.doc is a complete list of CompuShow video and printer drivers.

Changes.doc is a summary of the changes in this version.
CSHOW.DOC is the complete, detailed

CompuShow User's Guide. Finally, Q&A.doc contains frequently asked questions, complete with answers! You can read these files by entering, for example, TYPE CSHOW.DOC | MORE, and preesing a key to see each page. Or you can print a file by setting up your printer and typing COPY CSHOW.DOC PRN. Substitute the name of the document you wish to read or print for Cshow.doc in the examples.

### HELPLINE

If you still have problems then please phone our helpline number below before returning your disks:

## **DISK HELPLINE:** (0443) 693233

The helpline operates between 10.30 am and 12.30 pm weekdays. If possible, please have your computer operating and your cover disk ready when you phone the helpline. If your phone is not near the computer then please note down as much information about the fault as you can and have pen and paper handy before you call.



if your floppy drive is drive b:, substitute b: for a: in the example above, eg, B: [Enter] to log on to drive B:.

Type the following:

FRONT [Enter]

to start the cover disk menu program.

Use either a mouse or the cursor keys to select the program you wish to install. With a mouse, click on the bullet next to the appropriate program. With cursor keys, move the pointer to the bullet and press Enter.

Taking International Sports Challenge as an example, you should now see an on-screen message saying

The program will be decompacted to C:\SPORTS. Is this OK? (Y/N)

If this is OK, ie, you want to install International Sports Challenge to your hard disk C:, and you have no other directories called SPORTS, press Y and then Enter.

If you are installing to another disk, or you wish to give the directory a different name, simply press N [Enter], backspace over C:\SPORTS and retype your preferred destination, eg,

B:\DIVING [Enter]

The program should automatically install, finishing with the words All done!

To play the cover programs, log on to the correct drive and directory (if you did change the drive and directory names, don't forget where you put them!):

C: [Enter]

CD SPORTS [Enter]

will take you to the SPORTS directory on drive C:

Type the commands shown earlier in this column to start the programs you have installed.

his program was designed as an easy to use menu driven system for anyone, no matter what the level of knowledge. It is easy for anyone that can use a text editor to create their own functional menu script without any real programming knowledge.

The menus are a quick way to move around directories and invoke the programs that you use. They are also extremely useful for those who do not understand the workings of DOS as no command line knowledge is required once the menu has been invoked.

To install the program you must first copy the files to a floppy disk, if you have not already done so, you cannot install it from a hard drive. Then log on to the correct drive and type INSTALL.

To run the program you simply type **EZMENU** in the current directory providing:

- I. You have a path set up to the **EZMENU.EXE** file.
- 2. There is an EZ.MNU file in the current directory.

Once an option has been selected then the appropriate action is taken whether it is a change of directory, calling a submenu or invoking a program. If the script tries to change to a directory that has no EZ.MNU file then the following error will be displayed.

Error: No EZ.Mnu file found in directory

If this error message is displayed on program startup then the program will terminate on the next key press. Alternatively, if this message is displayed after selecting an option then pressing Esc will quit the program, but pressing any other key will return you to the previous menu from which the option was selected.

PC Review's cover disks are checked at each stage of production for all known viruses and duplicated under strict quality control. However, we can accept no responsibility for damage to either data or hardware caused by use of our cover disks.

We make every effort to ensure that cover disks contents are as advertised. If circumstances should dictate that we are unable to supply the stated programs, we will endeavour to provide alternative software. However, PC Review, its distributors and retailers will not be held responsible for any unnotified change to the contents of the disk.

### Creating your own script

There are very few rules to remember when creating your own menu script and these are detailed below.

- 1. 'This denotes a menu title is to follow and this must be placed on the first line of the script if you require a title.
- 2. Ordinary text placed on the start of any line is denoted as being a menu option, and is displayed as such by the program.
- 3. Any text which is not at the start of the line is the action that will be performed when the preceding option is selected.
  - 4. \* This denotes a comment line and is ignored by the program.
- 5. \$ This character tells the program to invoke a submenu with the name specified. For example, if the line read \$SubMenu then EZMenu would scan the current directory for a file called \$SUBMENU.MNU. If this file is found, then control is sent to this file instead of the standard EZ.MNU file. To return control back to the EZ.MNU file then the script should contain the line \$EZ. In this case, the \$ is discarded and control is returned back to the file EZ.MNU.

Note that there is no limit to the amount of menus that may be nested. Submenus were added for use in the current directory, if you require a new menu in a different directory then you may just call it EZ.MNU and then set up an option in your main menu to change to the new directory.

This will have the effect of closing the main menu and opening the menu in the directory you have just moved to. Control may be passed back in a similar way just by changing directories again.

6. EzMenu has been designed to interpret environment variables, such as the COMSPEC on your computer. These variables may be accessed in the same way as you would in DOS. You simply need to enclose the variable within two % characters. For example if the variable EZMENU was equal to C:\EZMENU then a line in the form of CD %EZMENU% may be used. Note that environment variables may be viewed by typing SET.

QUIT is a controlled way of exiting from the menu program.

There is a sample of a menu script and a submenu script called EZ.MNU and \$DIRS.MNU respectively, supplied with the program. These can be viewed by typing them or by selecting the view or print option after running EZMenu from the installed directory.

# ill of the Jungle



ill of the Jungle is an arcade-style adventure game from Epic Megagames with 256-colour VGA graphics, great sound effects, and a Sound Blaster-compatible musical sound track. This immense game world, Volume I in the Jill series, challenges both your mind and your reflexes!

Jill of the Jungle needs to be installed on your hard disk. You will require at least one megabyte of

available disk space. Copy the installed files to a new directory on your hard disk (if they are not already there, and type:

\$JILL

This will unpack the \$JILL.EXE file into the directory on your hard drive. To run Jill at any time, you should now log on to the correct directory and type:

Complete instructions for playing the game can be displayed once the program has started.



# **Captain Eric**

(3.5" Disks only)

aptain Eric is a fun, 12 level maze game. Our hero, Captain Eric, has landed himself in a bit of a pickle at alien HQ. He must negotiate 12 perilous levels before he can make good his escape. To get rid of the zombies, you can shoot or lure them into the traps. However, the more intelligent aliens tend to avoid these on higher levels. Alternatively, you may pick up a freezer, and then eat them (quickly) while they are frozen.

Collect ammo on the way, and use bullets sparingly. Use the cursor/number keys around 5 on the keypad to move, making sure that Num Lock is switched off first), or hold Shift down and hit 2,4,6, or 8 to fire the gun. You may need to shoot traps to progress in mazes. Hide behind traps and hit Space to lure aliens to their doom, thus saving bullets!

If you hit F2 for Easy mode game, you will find there are fewer, slower aliens and other unpleasant things. Note that, while you can move diagonally, you can't shoot diagonally. This makes the game more challenging!

Your objective is to collect all the heart-shaped keys on the screen; there is sometimes more than one!

There are two types of trap; the larger ones can absorb two aliens, while smaller ones can only take one, and then disappear. Some screens have mazes made up of invisible walls. These are revealed when you are within two squares distance.

Note that every time you move, the aliens move as well. Bear this in mind when running away. The aliens also move after each shot you fire, or if you stand still for more than a certain amount of time. On some screens, traps rain down after each move, so don't hang around!

On later screens you will see an alien generator, shaped like a house. This regenerates all the aliens you shoot, so you are advised to shoot this if you can.

Note that you can shoot all objects except walls and edges. You will sometimes need to shoot traps in your way to get through mazes, so it is advisable to save bullets for occasions like these; destroy aliens with traps and freezers when possible. Be careful not to shoot the heart-shaped keys, they are your way out!

### **FAULTY DISK?**

C Review's cover disks are checked and validated, but if you have reason to believe yours is faulty, pop the disk(s) in a jiffy bag with an self-addressed envelope and postage to the value of 28p (55p from overseas) for return of the new disk, and the form below (filled in) and send the package to the following address:

PC Wise Unit 3, Merthyr Industrial Estate Pentrebach Merthyr Tydfil Mid Glamorgan CF48 4DR

Please DO NOT send the disk back to PC Review – we don't hold stocks of spare disks.

The disk on my copy of PC Review was damaged. Please send me a replacement – I enclose return postage to the value of 28p (55p from overseas) and the original disk.

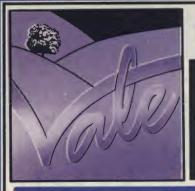
# MAKE YOUR RESERVATION ON THE



FOR THE RIDE OF YOUR



Trademark & Copyright 1991 Artdink and Maxis



# Prestige

Our new Vale Prestige PC range has been designed with the small business and home user in mind, attractively styled in a superb quality, low profile desktop case.

### **DISK STORAGE**

- Your choice of 42Mb or 107Mb Hard Drives
- High Density 3.5" 1.44Mb Capacity Floppy Drive

### VALE PRESTIGE SUPPORT

All Vale Prestige models are covered by 12 Months On-Site Maintenance, which can be extended if so desired. Our comprehensive backup support includes exclusive VALE HOTLINE Lifetime Technical Support and a no-quibble 30 day Money-Back Guarantee of Satisfaction

### HI-RES VGA DISPLAY

High resolution, low radiation VGA Colour Monitor manufactured for us by Tatung. All models feature a Trident 256K Video Card.

### HI-RES VGA DISPLAY

102-Key Enhanced Keyboard • DR-DOS Version 6 • Digital Display with Turbo/Reset Switches • 2 Serial, 1 Parallel and 1 Game port \* Three Full Size Expansion slots \* AMI PROFESSIONAL BIOS \* Socket for optional Maths Co-Processor \* 200+ Watt Power Supply



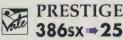
EVESTIAM

D ALL PRICES INCLUDE VAI & DELIVERY

PRESTIGE 386sx → 16

- 16MHz Intel 386sx processor
- 1Mb high speed 0-wait state RAM, expandable to 8Mb on board

42MB £637.45 +VAT 107MB £722.55 -VAT = £849.00 INC.



- 25MHz AMD 386sx processor
- 2Mb high speed 0-wait state RAM, expandable to 8Mb on board
- Landmark Version 2.0 speed of 31.6Mh;

42MB £680 00 +VAT 107MB \$765.11 .VAT



386px 40

- 40MHz AMD 3860x processor, 64K Cache RAM
- 4Mb high speed 0-wait state RAM, expandable to 32Mb on board
- Landmark Version 2.0 speed of 62.4Mhz

42MB \$765-11 +VAT 107MB £85021 .VAT

**OPTIONS** 

 Prestige '386sx-16 PAM Upgrade to 2Mb
 £34 04 +VAT= £40.00
 Microsoft Windows 3.1 + Mouse

 RAM Upgrade beyond 2Wb, per 2Wb add
 £68 09 +VAT= £80.00
 200Mb Hard Drive, add to 100Mb p

 Inlemal High Density 5 25' 1 2Mb Drive
 £59 00 +VAT= £83.75
 £69.33

 Microsoft Windows 3.1
 £50 00 +VAT= £83.75
 Maths Co-Processor for '396sx 45

£69 00 +VAT= £81.08 £200.00 +VAT= £235.00 ...£99.00 +VAT=£116,33 ..£149.00 +VAT=£175.08

### VALE FAMILY PACK

Turn your new computer into an entertainment, education & productivity centre with our Family Pack, available exclusively with any VALE model at only (£127.66\*VAT\*) £150.00.

(total cost if purchased individually £245.93)



TOOLWORKS OFFICE MANAGER bular productivity Software that extremely easy to use! Features Spellchecking Wordprocessor, Database and Spreadsheet.

DIGITAL SOUND SYSTEM
Features the MEDIA MUSIC sound card
(AdLib compatible), plus a pair of ZY-FI
amplified twin steree speakers for
dynamic, high quality sound.

MAVIS BEACON TYPING TUTOR Attain professional typing skills with the world's best software typing tutor!

LEISURE SOFTWARE
Two of the best ever PC games,
MONKEY ISLAND 2 and WING
COMMANDER are both included, featuring fantastic graphics and sound! PLUS! Smooth, high quality Mouse

### ADLIB COMPATIBLE PC SOUND CARD

Get amazing sound from your

PC games with this fully ADLIB compatible **PC Sound Card!** 

Capable of generating fantastic music and sound effects, this Sound Card incorporates an 11-voice FM synthesizer for realistic, good quality output. Its full ADLIB compatibility gives PC games and entertainment software a new dimension, because lots of titles are directly ADLIB compatible. Features an on-board 4w/ch amplifier with volume control, which outputs to external speakers or headphones directly, or can be wired to the PC's own internal speaker.

Only (£42.54+VAT=) £49.99

### COMPLETE MULTIMEDIA PACKAGE

EXCLUSIVE TO

**Evesham** 

**EVERYTHING YOU NEED TO GET STARTED IN MULTIMEDIA - PLUS MUCH MORE!** 



### SOUNDBLASTER PRO

Fantastic Digital Stereo Sound expansion card with an amazing array of musical capabilities! Incudes built-in stereo power amplifier with volume control and digital sound sampler. Card also has built-in analogue games port for connection of up to two games joysticks.

### **FAST CD-ROM DRIVE**

Performance optimised CD-ROM drive connects directly to the Soundblaster card's

**PLUS! WINDOWS 3.1 AND** PLENTY OF CD-ROM DISK

'MICROSOFT BOOKSHELF' featuring Dictionary, Thesaurus, Atlas / Encyclopedia, Quotations 'SHERLOCK HOLMES' game

SOFTWARE, INCLUDING:

'CREATIVE SOUNDS' sounds disc

FANTASTIC VALUE! (£424.68+VAT=) £499.00

Also available with External CD-ROM Drive for only (£509.79\*\*\*\*) £599.00

### ALL-IN-ONE MULTIMEDIA KIT! - INCLUDES -

- 'SOUNDBLASTER PRO' PREMIUM SOUND CARD
- HIGH PERFORMANCE INTERNAL CD-ROM DRIVE
- WINDOWS 3.1 INCLUDING **BUILT-IN MULTIMEDIA**
- PLUS! LOTS OF CD-ROM STARTER SOFTWARE
- N B. Requires 286 or higher with 1Mb or greater & Hard Disk

### PC HANDY SCANNERS

### **QUALITY 400dpi SCANNING - AT** THE RIGHT PRICE!

Our Handy Scanners have all the right features, including O.C.R. and extensive graphics editing facilities.

- Genuine 400dpi Scanning resolution
- Full 105mm wide scanning head
- 4 selectable scan resolutions (100-400dpi)
- Variable brightness control
- Two versions available: 64 Halftone / True 256 Greyscale

Full software even includes high speed, fully trainable OCR utility which converts scanned text images into text files, saving hours of retyping! Works with any PC (including Amstrad PC1512 or PC1640) with 640K RAM. Hard Drive and Mouse highly recommended

64 HALFTONE LEVEL VERSION (DOS SOFTWARE)

(£85.10-VAT-) Only £99.99

TRUE 256 GREYSCALE **VERSION (WINDOWS ONLY)** 

(£127.65\*VAT-) Only £149.99

### PHILIPS CM50 CD-ROM DRIVE

**YOU TOO CAN** NOW AFFORD THE REVOLUTION IN **MULTIMEDIA STORAGE, WITH THIS** PHILIPS CD-ROM DRIVE!

It offers the benefits of huge data retrieval, fast access speed and sheer convenience to the PC user in any given environment.

FREE CD SOFTWARE WITH EVERY DRIVE !!

 'REFERENCE LIBRARY 'WORLD ATLAS MK.II'

plus CD Games Pack including:

• 'Chessmaster 2000'

• 'Bruce Lee' • 'Black Hole' • 'Life & Death' • 'Gin & Cribbage'

The CM50 is a high performing mass retrieval peripheral which accesses both data and audio from CD-ROM and CD-Audio discs.

Latest optical technology from Philips • Compact, fully self-contained desktop drive unit with controller card • Allows instantaneous access to databases up to a huge 600Mb in size • Unsurpassed levels of data integrity; unique error correction strategies • Handles CD data discs, audio discs, plus mixed-mode CD-ROM discs • User interface allows illatening of audio discs via output socket provided on the main drive unit, which also has a volume control for line output.

ONLY £299.99 includes Software, VAT and delivery

TESTER NEW TELESALES AND SHOWROOM SUNDAY OPENING FROM 10AM - 4PM

# INCLUDE VAT 20 DELIVERY

•

med sove

COMPLETE PC SOUND PACKAGE

TOP SPECIFICATION DIGITAL STEREO HI-FI SYSTEM FOR PC'S

### RSION 2 OF LATEST VERSION **FEATURES**

To get the most from the superb digital sound quality from SOUNDBLASTER, our oackage also leatures ZY-FI Stereo Ampflied Twin Speaker System which has its own volume control and plug-in power supply. Quickwhot QS-123 analog games joystek is also supplied, which connects directly to Soundblaster, PLUS! We also supply the amazing Monkey Island 2 yaphic adventure — with SOUNDBLASTER it looks and sounds absolutely fantastic!

- **Digital Sound Output**
- 11 Voice FM Synthesizer (fully ABLIB compatible)
- **Digital Sampling capabilities**
- On-board Analog Joystick I/O port
- On-board Stereo Power Amplifier with external stereo speaker connections and volume control
- Plenty of Software including Powerful FM organ, Text to Speech & much more.
- Fully ADLIB compatible -**WORKS WITH LOTS OF GAMES!**

### SYSTEM INCLUDES :







QUICKSHOT QS-123 JOYSTICK



MONKEY **ISLAND 2** TERIFFIC PC ADVENTURE GAME SOUNDS GREAT !!!

**COMPLETE PC SOUND PACKAGE** ONLY £139.95

**INCLUDING VAT AND DELIVERY -**

NEW! Soundblaster PRO (ideal for Multimedia; has CD-ROM interface) .......£222.08

### ••••••••••• ANALOG EDGE Joystick by Suncom Technologies

uncom's anaiogue joysticks always set new standards in quality and performance. The Edge represents terrific value, incorporating Injected Resistor Technology, resulting in a product with unmatched simplicity and breakdown resistance. Features twoway switchable fire buttons, and Aircraft-style grip, with game optimised ergonomics. Complete with 'Gameport 2' dual input gameboard halfcard

> ONLY £29.99 INCLUDING CONTROLLER CARD

ystick or Games Controller card available separately for only £17.99

### ANALOG XTRA Joystick

Featuring the same Injected Resistor Technology that gives the Edge uncommon durability and capability, the Xtra is possibly the most advanced flight sim. joy-stick on the marketi With variable autolire, throttie control, 4 switchable fire buttons and Aircraft-style grip. Accuracy and flexibility like nothing you've experienced beforei Supplied with 'Gameport 2+' variable speed dual input gameboard halfcard.

ONLY £39.99

INCLUDING CONTROLLER CARD

Joystick or Games Controller card available separately for only £24.99

### TRACKBALL

Excellent high performance trackball, directly compatible to any PC, operating via the environment and graphics intensive operations, as well as games! With its leatured locking drag button and line hold facilities, accurate total one-handed ontrol is a doddle. Top quality construction nd opto-mechanical design, delivering high beed and accuracy every time. Full Microsof

including VAT Only £39.99

### Winner FLIGHT YOKE

•••••••

Gives Cockpit Realism to your Flight Simulation Software!



The Flight Yoke clamps securely to your table top or desk surface and gives Cockpit-like realism to all your flight simulation software.

Compatible with many simulation games, including Microsoft Flight Simulator. Features Throttle Control and horizontal and vertical trim controls. Complete with clamps and suction cups.

Only £39.99

including VAT and delivery

### TRUEMOUSE

WE GUARANTEE that this is the smoothest, most responsive and accurate mouse you can buy for the PC. Excellent performance, amazing low price I Serial (9-way & 25-way), PS/2 and Amstrad PC compatible versions available - please state which version is required when ordering.

Only £22.99 State SERIAL, PS/2 or AMSTRAD PC VERSION when ordering

Golden Image OPTICAL MOUSE

Smooth action, excellent response there are no moving parts, so this mouse will not wear out!

SUPERB LOW PRICE! Only £34.95



JOINT WINNER OF **COMPUTER SHOPPER'S** Best Customer Service'

- AWARD FOR 1991 -

### PRICES INC.DELIVERY & VAT @ 17.5%

**Express Courier Delivery:** 

(UK Mainland Only) £6.50 Extra

### HERE TODAY ~ HERE TO STAY

vesham Micros First. First for choice, prices and service. Estab or over eight years, with a strong financial status and secure for our Computerised Telesales Order Processing investment mean

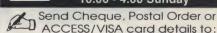


Call us now on

0386 765500



TELESALES OPENING TIMES: 9am - 7pm Monday-Friday 9am - 5.30pm Saturday 10.00 - 4.00 Sunday



**Evesham Micros Ltd.** Unit 9, St Richards Road Evesham, Worcs, WR11 6XJ



ACCESS / VISA Cards Welcome



Government, Education & PLC orders welcome Same day despatch whenever possible Express Courier delivery (UK Mainland only) £6.50 extra Please note that 5 banking days must be allowed for cheque clearance. Immediate clearance on Building

Society cheques or Bank Drafts. Mail Order Fax: 0386-765354

New showroom opening times: Mon-Sat. 9.00 - 5.30 Sunday 10.00 - 4.00

Unit 9 St Richards Road, Evesham Worcestershire WR11 6XJ

**2** 0386 765180 fax: 0386 765354

5 Glisson Rd, Cambridge CB1 2HA

T 0223 323898 fax: 0223 322883

Corporate Sales Dept. • IBM dealer

251-255 Moseley Road, Highgate, Birmingham B12 0EA Tel: 021 446 5050 • Fax: 021 446 5010

Corporate Sales Dept • Easy Parking 320 Witan Gate, Witan Court Milton Keynes MK9 2HP

**3** 0908 230 898

TECHNICAL SUPPORT

ĬS

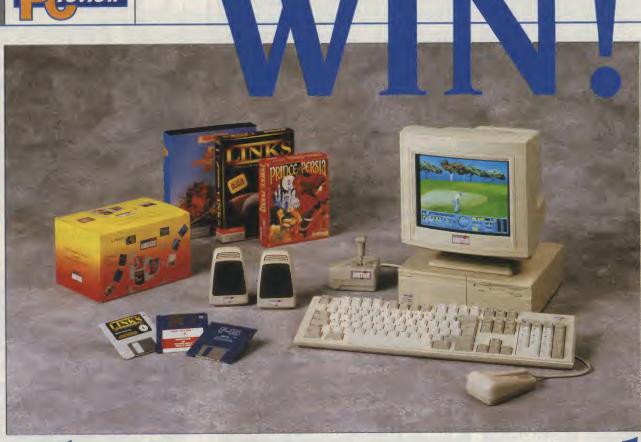
ETAI

**T** 0386-40303 Monday to Friday, 10.00 - 5.00

12 MONTHS WARRANTY

ON ALL PRODUCTS All details correct at time of going to press . All goods subject to availability





# The new Amstrad Games Machine

# Plus! £500 of educational software up for grabs

he Amstrad 4386SX Family Pack is Amstrad's answer to the calls for a family games pack more powerful than the original 5286SX pack. The 4386 has a powerful 386SX 20Mhz processor, a massive 80Mb hard drive, a generous 4Mb of RAM and comes with an Ad Lib compatible sound card and speakers, an Amstrad joystick and a games pack consisting of the golf simulation Links from Access, F15 Strike Eagle II from MicroProse and the legendary Prince of Persia from Broderbund.

One of these eminently gamesworthy packs worth £1,000 could soon be yours if you manage to answer correctly the three simple questions below.

We've also got 20 copies of Europress Software's new ADI educational range, worth £26 each to



give away. ADI is a cute alien character who guides children through a carefully arranged programme of explanatory text and diagrams and question and answer sessions. Each child's progress is individually monitored, and the child is rewarded with sub-games when he or she does well, thus providing incentive to keep making an effort.

In this competition, we're offering copies of either the English or the Maths program. Both are available in two age ranges, for 11-12 year olds and 12-13 year olds. There will also be a French module and other modules for other age ranges available in the autumn. All of the modules are designed to be compatible with the National Curriculum, so they can be used alongside normal schoolwork.

Send the form to: Word-ly Wise PC Review EMAP Images Priory Court 30-32 Farringdon Lane London EC1R 3AU

and make sure it reaches us by September 17th, 1992. We'll announce the results in our October 1992 issue.

### How to enter

On the form below, you will find five incomplete words which contain the letters ADI. All you have to do is use the accompanying clues to work out the what the words are and fill in the remaining letters.

1. ADI--

French goodbye?

2. -ADI----

Being exposed to this could be deadly...

3. ----ADI--

What you might do with Marmite or muck!

4. --- ADI-

Coming in fits and starts.

5. -ADI----

Like this puzzle? Or getting pleasure from pain.

### Rules

The winner of the Amstrad Family Games Pack will be the first correct entry drawn at random after the closing date.

The next 20 entries drawn will each win a copy of an ADI educational package of their choice.

No entries received after the closing date will be considered.

Only ONE entry per person, please. Multiple entries will be disqualified.

Employees, and their relatives, or associates, of Europress Software, Amstrad, and EMAP Images are not eligible to enter this competition.

The editor's decision in all these matters is unequivocally final.

### WORD-LY WISE

I think the words are:

1.ADI--

2.-ADI----

3.---ADI--

4.---ADI-

5.-ADI----

In the event that I win a copy of the ADI educational software I would prefer:

☐ ENGLISH 11-12 yrs

☐ ENGLISH 12-13 yrs

☐ MATHS 11-12 yrs

MATHS 12-13 yrs

NAME:

ADDRESS:

Tick this box if you do NOT wish to receive any further information from companies associated with this competition.

Closing Date: September 17th 1992

### COOLER THAN AN ICEBERG IN ANTARCTICA



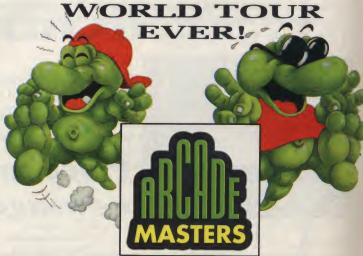
### HOTTER THAN A PICNIC IN DEATH VALLEY



THE TOTALLY
COOL
EXPERIENCE OF A
LIFETIME!

IT'S CROCTASTIC!!

JOIN PUNK &
FUNK CROC ON
THE COOLEST
WORLD TOUR





# Next month

JULY	1992					
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
19	20	21	22	23	24	25
26	27	28	29	30	31	
AUG	UST 1992					
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12 Grouse season begins	13	14	15
16	PC Review on sale	18	19	20	21	22
23	24	25	26	27	28	29
30	31  Bank Holiday (England)					

# AUGUST 17TH PC REVIEW ISSUE 11 GOES ON SALE

The essential guide to role-playing games

Whether you're confused, but intrigued, by all this talk of NPCs, hit points and spell-casting, or an expert looking for the best buys, our exhaustive RPG round-up will be your essential reference tool.

### Communications

What is it about comms enthusiasts that makes them talk in CB speak and why do hackers only seem to operate at the dead of night? Our First Steps series explains what you can do with a modem and a jack plug, why you might want to, and how to set up your PC to communicate with the outside world.



### Plus

Indiana Jones, the adventure game reviewed – has Lucasfilm surpassed itself ... and Dynamix's follow-up to Red Baron, Aces of the Pacific, is revealed in all its glory ... the second part of our music series delves further into MIDI and shows you how to set up a music system in practice ... that promised Harrier preview? Well, we're keeping our fingers crossed.

# Place an order with your newsagent now.

Contents may be subject to change.



071-972-6700 Ext: 2474 or 2473

> PC Review Magazine **Emap Images Priory Court** 30-32 Farringdon Lane London EC1R 3AU

### COMMODORE - AMSTRAD - SPECTRUM - PC

### Software Choice

Unit 5/6 In Shops, 71-73 The Mall, Stratford, E15 Tel. 081 519 6266

For all of your computing needs and software bargains.



ST

- GAMEBOY

- LYNX

- GAMEBOY

-- LYNX

GAMEBOY

XNXI

PC Mice	l
NAKSHUA MOUSE & D PAINT 2£39.99	l
SQUIK MOUSE£16.99	l
IS MI MOUSE£37.99	



ATAR

ST - AMIGA -

ATARI - ST - AMIGA - ATARI

ANALOGIC JOYSTICKS	
GRAVIS	£39.99
WARRIOR 5	£13.99
QS 113 + CARD	£17.99
(up to 286-only)	

GAMECARDS PC			
GAMECARD 3£39.99			
(up to 50 Mhz)			
GAMECARD 1/0£27.99			
(up to 32 Mhz)			

JOUNDBLASIEK
SOUNDBLASTER V2£109.99
SOUNDBLASTER PRO£199.99
MIDI KIT£59.99

ı	DISK	BOXES 3	.5
l	HOLDS	40	£7.99
ı	HOLDS	80	£8.99
١	HOLDS1	00	£10.99

### HI-FI SPEAKERS

INCLUDING MAINS ADAPTOR AND INTERNAL AMPLIFIER £37 99

### MULTIMEDIA UPGRADE KIT

THE ALL IN ONE MULTIMEDIA SOLUTION FOR THE P.C. INCLUDES SOUNDBLASTER PRO STEREO CARD, MIDI KIT, HIGH PERFORMANCE, CD ROM DRIVE, WINDOWS WITH MULTIMEDIA PLUS LOTS MORE INTERNAL £499.99 EXTERNAL £649.99

THE BIGGEST LITTLE COMPUTER SHOP IN STRATFORD

- NINTENDO - SEGA - VCS 2600 - MEGADRIVE



386s x 25Mhz **42Mb Hard Disk SVGA Colour** Display 2Mb Ram 3.5 " Floppy Drive **Joystick Port** 2 Serial Ports 1 Parallel Port £595 +vat

NO CATCH NO CON NO CHEAT **OUR PRICES** CAN'T BE BEAT

**CALL NOW!!** 071 371 7518 **CHOICE COMPUTERS** 86, FULHAM RD SW6

### AMTECH DIRECT- The "Multimedia" People

- AMTECH is a division of Comtel Communications. Est 1982

All of the following systems are available with Sound Cards and CD-Rom Drives. Due to the amount of options available these are not included below, please ring for a complete price list

386SX-25	<b>£699</b>
386DX-25	£749
386DX-33 (64k cache)	£799
386DX-40 (64k cache)	£829
486SX-20 (8k cache)	
486SX-20 (64k cache)	
486DX-33 (64k cache)	
486DX-33 (256k cache)	
486DX2-50 (256k cache)	
486DX-50 (256k cache)	

All systems include : 1MB RAM, 44MB HARD DISK 14" Colour SVGA Monitor, 16-bit 1MB SVGA card, Desk top Case with 200W PSU, 3.5" 1.44MB Floppy Drive, 2 Serial,1 parallel, Games Port, 102 Key Enhanced Keyboard.

Options: Extra Ram £27 (per MB), 1.2 Floppy Drive £39, Mouse £14.00, 106MB Hard Disk add £99, 130MB Hard Disk add £129, 210MB Hard Disk add £249 330MB Hard Disk add £539, MS-DOS 5 £39, Windows 3.1 £49, Minl Tower Case add £10, Tower Case add £39

### AMTECH DIRECT

Tennyson Road Bognor Regis West Sussex PO21 2SB[ Telephone enquiries (0705) 467590 FAX: (0705) 463742 MAJOR CREDIT CARDS WELCOME

Carriage £10 per order. All system with 1yr. RTB Warranty. All prices exclude VAT Mon- Fri 12.00 pm to 8.00 pm Sat 9.00 am to 12.30 pm Callers by apointment only



### **SOUND & MUSIC FILES**

### SOUND CARDS

MEDIA SOUND CARD €69.95 SOUNDBLASTER PACK \* £134.95 SOUNDBLASTER PRO £199.95

INCLUDES STEREO SPEAKERS 2 FREE SOUNDFILE DISKS WITH ALL CARDS

**BLANK DISKETTES (BOXED 10)** 

DSDD DSDD £2.95

£4.80 DSHD €4.95 DSHD

Realise the music potential of your ADLIB, SOUNDBLASTER or compatible sound card with hundreds of sound files to play at your leisure, includes ROCK, SIXTIES and POP, E.T.C Over 100 music & sound files on each DISK inc JUKEBOX & Rol player



2 disks £5.00 No extra charge for 3.5" State size when ordering

£3.00

**CHEQUES & POSTAL ORDERS PAYABLE TO** MICRObase DIRECTORY SERVICES LIMITED 94 BENNETT AVENUE, ELMSWELL, BURY ST **EDMUNDS SUFFOLK, IP30 9EY** TEL (0359) 41654

ALL PRICES INCLUDE VAT & DELIVERY









**GAMEBOY** 

GAME GEAR

LYNX

PC ENGINE GT

GAMEBOY

GAME GEAR

LYNX

PC ENGINE GT

GAMEBOY

GAME GEAR

LYNX

PC ENGINE GT

# Got a hand held?

# Grab your free edition

of with C&VG



More hand-held action than you ean stuff down your trousers!



Gameboy, Game Gear, Lynx and PC Engine GT - we take them all to pieces and tell you which is the best!



chock-a-block full of the latest reviews and previews on the greatest hand-held games in the world!



Latest and greatest,
it's Britains only hand-held
console mag - and it's free with
C&VG!



GO! Grab it quick - it's going fast!



# CLASSIC GAME GUIDE

lassic action, classic thrills, classic games – brought to you exclusively in PC Review's new Classic Games Guide!

This month's Classic Games Guide has been updated to take account of some of the best games to be released more recently, and price and label changes for the older games. You'll see that some titles have "now delisted" written against the price. This means that the publisher in question is no longer (or not at the moment) producing copies of the game,

but you may still be able to obtain it in shops or through mail order suppliers. This is particularly true of titles published under the Cinemaware, Image Works or Mirror Image label, which is in a state of limbo at the moment following the demise of the Maxwell-owned publisher. Temporarily, we hope.

Over the past few years there has been a massive increase in the number of software houses developing games for the PC in this country and the amount of products coming from the United States. The choice facing the buyer is truly impressive.

Each month we will feature top quality PC games, covering all aspects of computer entertainment, from action to brain teasers, fantasy to sport, and flight simulations to strategy. And each month we will also take an in-depth look at a particular classic game.

This section of the magazine is not just a nostalgia trip, however. Classic games are being created all the time and they too will find a place here. So if you are a keen gamer or newcomer to the excitement of computer entertainment, there will always be something new for you to read each month.

The accompanying Dealer Directory lists nearly 40 of the country's top independent computer shops and, in conjunction with Centresoft, one of the UK's leading distributors of software, they have agreed to feature the games listed in this

## When you visit, PC Review logo – the and quality service.

look out for the Recommended guarantee of quality games

The action starts now ...

### INDEX

Classic game of the month	100
Action	101
Flight simulation	101
Driving simulation	102
Other simulation	103
Strategy/war	103
Fantasy role-playing	104
Brain teasers	104
Sport	106
Adventure	.107
Arcade/strategy	108

### **CLASSIC GAME** OF THE MONTH

**POPULOUS** 

We have done everything humanly possible to check the information in this guide. But prices do change, distribution switches from one company to

another, even brand names can alter. While we will update the information regularly to take account of this, we cannot be held responsible for errors.

Anyone - suppliers, publishers or readers - who knows of any products suitable for inclusion, but which have been mysteriously omitted, can write in

with details - please do not telephone - to PC Review, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

# **DEALER**DIRECTORY

COMPUTER
WISE
UNIT 17
BROOKVALE IND
ESTATE
WHITTON
BIRMINGHAM

MICROBRIDGE
SYSTEMS
Kettlestrong Lane
Cliffton
York
YO3 8XP

Tel: 0904 690617

### ELM COMPUTING

42 Cookson Street
Blackpool
Lancs
FY1 4ED

97 St Albans Road Lytham St.Annes Nr Blackpool

3C York Avenue Cleveleys Nr Blackpool

# review

### CLASSIC GAME OF THE MONTH

# **Populous**

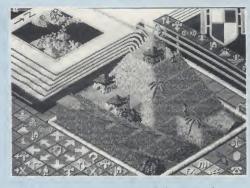
od simualtions have become almost passé these days, there being so many of them to choose from. Civilization, Realms, and Bullfrog's own Powermonger are three recent examples and Utopia and Mega-lo-Mania are shortly to make an appearance. Joining them will be Bullfrog's eagerly awaited sequel, Populous 2, so now seems as good a time as ever to reappraise the original god game.

Populous, along with Maxis' superb Sim City, came like a breath of fresh air into the computer games arena. Back in 1989 even the PC was suffering from release after release of unoriginal dross, so it came as no surprise when Bullfrog's now classic game captured the imagination of journalists and games players alike.

The player is given a god-like role as the guardian of a race of expansionist warlike people. The ultimate objective is to make your own population grow and conquer an opposing civilisation. You achieve this is by creating a suitable environment for your little people to live on. In this instance, a suitable environment is as much flat land as

you can possibly come up with. The land has to be flat because only then will your people build dwellings of various sizes and settle down to the business of ... er ... producing more little people.

Making flat land is where Bullfrog's ground-breaking (pardon the pun) technique of landscaping comes in. The development team devised a system whereby a three-dimensional angular landscape can be manipulated by clicking the mouse on particular points



to raise or lower the level of the land. By doing this the player can level the natural contours and give his people the opportunity to build and expand. There is a cost for this power though; your little people generate mana which gets used up as you raise and lower land. Fortunately the more people there are on your side, the more mana they generate.

So far, so good. But surely there must be more to the game than raising and lowering land. There is indeed. When your population grows sufficiently large to generate a lot of mana it becomes possible for you to include in a few more obviously

god-like acts. These include creating volcanos (which in this case are inactive, but become a difficult obstacle to remove), laying down swamps which swallow up unwary members of the opposing population, causing earthquakes, and, most deadly of all, generating a flood that would have impressed Noah.

One of the more interesting powers is the creation of a knight. Your people's lives revolve around an object of devotion called the Papal Magnet. This can be placed to direct your people towards a

particular area of the land. It can also be used to create a leader who can in turn be transformed into a knight. Knights can become very strong, and should be, becasue their job is to wander off and ransack the dwellings of the opposition, fighting and slaying all that they meet.

The final power is the devestating Armageddon. This requires an enormous amount of mana and causes each side to draw together to create two superbeings who battle it out for ultimate victory.

Populous can be played against a range of computer opponents with increasing abilities, but the game becomes even more interesting if you link two machines together via a serial link or modem and play against another person. If you were planning to buy Populous 2 and you don't have Populous, it will still be worth buying the first game, which is a good introduction to

the concept behind both games.

■ Star Performers ■ £10.99

# Games Express

### **Quality, Service and Choice**





### ADVENTURE/ROLE PLAY

Another World	£27.99
Bane of the Cosmic Forge	£29.99
B Rodgers 2: Matrix Cubed	
Bards Tale Construction Set	
Bards Tale Triple Pack	
Battletech 2: The Crescent Hawks	
Conan the Cimmerian	
Conquest of the Longbow	
Corporation	
Covert Action	
Cruise for a Corpse	
Darklands	
Dungeon Master	
Ecoquest	£32.99
Elvira 2: Jaws of Ceberus	£29.99
Eternam	
Eye of the Beholder 2	
Flames of Freedom	£33.99
Gateway to the Savage Empire	
GODS	
Heart of China	
Heroquest	£28.99
Immortal	£29.99
Kings Quest 5(VGA)	£33.99
Keys to Maramon	£22.99
Leisure Suit Larry 5	£32.99
Lord of the Rings 1	
Magic Candle 2:4 & 40	£29.99
Martian Dreams	£28.99
Megatraveller 2	£27.99
Might and Magic 3	£29.99
Planets Edge	£30.99
Police Quest 3	£32.99
Pools of Darkness	
Prince of Persia	
Quest for Adventure (Indy 1.0p Steal	th/
Mean Streets	£30.99
Rise of the Dragon	£28.99
Rocketeer	
Savage Empire	
Secret of Monkey Island	£23.99
Secret of Monkey Island 2	£30.99
Space Wrecked	
Secret of the Silver Blades	



"Stylish and sophisticated intergalatic intrigue in Dunc. As Paul Atreides you must organise, train a nd lead the desert Fremen to vict ory Your conquest will depend on your abilities as a leader, soldier and politician."

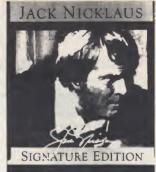
Shadowlands	£27.99
Shadow Sorcerer	£24.99
Spellcast 201 (Sorc.Appliance)	£29.99
Star Trek 25th Anv	£29.99
Terminator (Adventure)	£24.99
Time Quest	£29.99
Treasure/Savage Frontier	£23.99
Twilight 2000	£28.99
Ultima 7	£30.99
Ultima Underworlds	£30.99
Vengeance of Excalibur	£28.99
Willie Beamish	£32.99

### **SIMULATIONS**

A320 Airbus	£37.99
A10 Tank Killer (Enhanced)	£29.99
Aces of the Pacific	
EPIC	
F117A Stealth Fighter	
F15 Strike Eagle 2	£28.99
F29 Retaliator	£25.99
Falcon 3	
Gunship 2000	£29.99
Harpoon 1.2.1	£30.99
Harpoon Battle Sets	
Hyperspeed	
Jetfighter 2	
M1 Tank Platoon	
Megafortress	£28.99
MIG29 Super Fulcrum	
Red Baron (VGA)	£29.99
Secret Weapons of the Luftwaffe	£30.99
SWOTL Data Disk (Heinkel HE162)	£14.99
SWOTL Data Disk (P38 Lightning)	£14.99
SWOTL Data Disk (P80 S/Star)	
Silent Service 2	£29.99
Space Shuttle	£39.99
Team Yankee 2	£29.99
Wing Commander	£27.99
Wing Co Missions	£12.99
Wing Commander 2	£28.99
Wing Co 2/Speech Pack	£12.99
Wing Co 2/Special Ops Pack	£13.99

### **SPORT**

Battlechess for Windows	£27.99
Budokan	
Chess Champion 2175	£29.99
Chessmaster 3000	
Earl Weaver Baseball 2	£23.99
Games Winter Challenge	£28.99
Ian Botham's Cricket	£24.99
Ironman Stewart Super Offroad	£9.99
J.Nicklaus courses	£12.99
J. Nicklaus Signature Golf	£31.99
Links	
Links Courses	(each)£12.99
Man Utd Europe	£26.99
Manager	£28.99
Mario Andretti Racing	
Mike Ditka Football	
PGA Tour Golf	
P.G.A. Cours Disk	£13.99
Pro Tennis Tour 2	£27.99
Shanghai 2	£29.99



256 Colour VGA graphics, stunning visuals, two courses and a course builder in the all -new

Jack Nicklaus Signature Golf

Team Suzuki	£27.99
T Larussa Baseball	£25.99
NCAA Basketball	£27.99

### STRATEGY

T	
Bandit Kings of China	
Battle Isle	£28.99
Breach 2	
Castles	£25.99
Castles Data Disk	£13.99
Civilisation	
Dune	
Elite Plus.	
Fireteam 2200	
Floor 13	
Ghenghis Khan	
Patton Strikes Back	
Populous	
Powermonger	
Railroad Tycoon	
Realms	
Samurai W/Warrior	£27.99
Sim Ant	£29.99
Sim City / Populous	
Sim city data disks also available	
Sim Earth	£29.99
Storm Master	
Supremacy	
Uni. Military Simulator 2	
GENERAL	

Award Winners (Space Ace)	.£29.99
Fun School Range	£21.99
Hoyles Book Of Games	£30.99
Lemmings	
Magnetic Scrolls Pack	£25.99
Top League	£28.99

### HARDWARE

Soundblaster V2	£129.99
Analog Plus Joystick	£22.99
Analog Extra Joystick	

### **NOW AVAILABLE**

EOB 2 Cluebook	£8.99
Quest & Glory	
(Compilation Inc. BAT/Cadaver	
Bloodwych/Midwinter 1)	

IF YOU DON'T SEE THE GAME YOU WANT PLEASE RING US

GAMES EXPRESS Hours

Mon-Fri

8am-9pm

Sun IVam-opm SAME DAY DESPATCH IF ORDERED BEFORE 3pm SUBJECT TO AVAILABILITY

PRICES INCLUDE P&P (UK) AND VAT

GAMES EXPRESS P.O. BOX 515 LONDON SE4 1HE

**a** 081 - 314 0303

CREDIT CARDS/CHEQUES/POSTAL ORDERS ACCEPTED

### SHARESENSE

98 Chatsworth Street, Sutton-in-Ashfield, Notts. NG17 4GE TEL (0623) 558057

### **DATABASE**

DBSTEEL \* Intreg multi function excellent docs (4) FILE EXPRESS \* Excellent program (2) WAMPUM \* Much like DBase 3 (3) WYNFIELD \* Mouse control Function key help PCFILEv5.1\* Highly rated Database (3) PE3 \*Photography equpment Database PPSI \* People, picture and sound Database CARDX \* Visual Rolodex and Database DIF12 \* Database import facility for ASCII Files JBASE \* Jokes, Gages Database KS21\* Kwikstat Statisical Data Analysis (3) MAGCAT \* Magazine/Catalogue Database LM42 \* Label Master, Mailing List Database MVLIB \* Database on over 3000 videos NIGHTCLB \* Track nightclub members & data VTI30 \* Video tape library database PED205 \* Track dog pedigrees & awards SUSIE \* Complete software library management

### **WORD PROCESSORS**

CHIWRIE \* A good WYSIWYG w/pros GALAXY \* Good with easy menus KWIKRITE \* Executive W/Processor MUTIFW \* Multi-Lingual W/Processor MUTIWORD \* Popup electrinic Thesaurus MOREFORM \* Custom form designer FORMGEN \* Another form generator FORMFILL \* Formgen companion BUSFORM \* Business forms for Formgen SFORM \* Yet another form generator PCTYPE \* Popular Word Processor (4) SWORDP \* Emulates Word Perfect (4) PCBROW \* Search, cut, paste & find text (2) NOVA \* W/Processor with pull-down menus WP5TUT \* Word Perfect V5 Tutor Easy! MUTIEDIT \* Very advanced text editor WPK \* Word Processor for kids EXSPELL \* Stand alone spell Checker MRE \* Memory text editor BUSLTR \* Collecting of over 600 Buss letters MAGIC \* Black Magic Hypertext W/Pros (3) JORI \* On-Line Dictionary (20) 20-20 \* Large text W/Proc for Lap-Tops

### **SPREADSHEETS**

ASEASYAS \* Excellent 123 Package QUBECALC \* 3D Spreadsheet LEARN123 \* Lotus 123 Tutorial INSTACLAC \* Pop-UpSpreadsheet JOSSI \* Job-Orientated Spreadsheet QUBECALC \* Highly rated 3-DS/Sheet PQLITE \* Pro-Cube3-D S/Sheet go

### **FINANCE**

BILLPOWER \* Timekeeping, accounting (3)
CHECKMATE \* Home finance manager
CASHBOOK \* Freeways Best (3)
FINMRG \* Finance manager complete accounts
PAYROLL \* Freeway add on (3)A

### \*\*\*\*DISK CATALOGUE\*\*\*\*

FORWARD 2XIST CLASS STAMPS STATING DISK SIZE FOR OUR LATEST CATALOGUE WITH OVER 15,000 TITLES (REFUNDED ON FIRST ORDER)

### \*\*\*NOTICE\*\*\*

DUE TO THE SIZE OF OUR
CATALOGUE IF YOU REQUIRE
THE CATALOGUE ON 360K DISKS
A HARD DISK IS REQUIRED

### **ASSORTED GAMES**

STARGOOSE

688 ATTACK SUB CAPTAIN COMIC COMMANDER KEEN EGATREK-STAR TREK SHOOTING GALLERY BLACKIACK BASSTOUR Fishing game GEMINI K3D Tank battle PACKMAN 3D EGA ARKNOIDS **BLOCKOUT** Tetris game **FLYSWAT Space invaders** KAMIKASI Shoot-em-up HDHELL Helicopter sim FORD SIMULATOR FROGGER ENTRAP Ball & bat style MARIO Mario-bros style NINJA Fight the Ninja PC DARTS PCPOOL Pool & 8 Ball

SEAWOLF Submarine Cm

WIZARD Pinball game TRON Light cycles (3) WHEEL OF FORTUNE XWING Battleship game CHESS Turbo very good! DOMINOES CHECKERS SORRY MONOPOLY MAHJONGG Tile game BACKGAMMON NOUGHTS & CROSSES **BLACKJACK CGA** POKER 7 CARD STUD POKER F16 Interceptor game

F16 Interceptor game JETPILOT TUNE Name that tune PC TENNIS TRIVIAL PURSUIT GOLF2 Computer golf

### DOS UTILITIES

PKZ110 \* PK Ware's ZIP archiver the best! LHARC \* Archiver for LHZ files ARJ \* New archiver more powerful than PK ZIP SHEZ \* Dos front end for Pk ZIP AUTOMENU \* A superb menuing system POWERMENU \* Brown Bags excellent menu ACCESS \* Pass word protect your hard drive SCAN88 \* MacFee's latest virus checker very good STD \* STD tel no area code locator JLOG \* Keep track of computer usage TUTORDOS \* Very good Dos teacher ONEPASS \* Disk Duplicator BENCH \* AT Bench markingprogram RUBICON \* Full feature Desk Top Publisher 4DOS \* Highly acclaimed Dos command add -to DSKSPEED \* Check floppy disk speed HYPERDISK \* A very fast disk cache EM87 \* Co-Processor emulator for the 8087 CMOS \* Save CMOS settings for easy set up VG! ADDRAM \* Use EMS 4.0 to expand 640k barrier EMM4 \* Extended memory driver for Above Board MM \* Memory Master improve your memory table 1200 \* Format a I.2K disk to 1.5K LIGHT \* Speed up your drives WORLD \* 3D globe rotating in space DAZI \* Amazing VGA Demo FMT \* Format multiple drives GALLERY \* Menu system that uses icons

### **ALL PROGRAMS**

99<sub>P</sub>

EACH

MINIMUM ORDER 5 PROGRAMS POST & PACKING & £1.95 NO SURCHARGE FOR 3.5" DISKS OVERSEAS ORDERS AND £2.95

### WINDOWS

ICONS \* 3,000 every icon you will ever need!

APORIA \* Windows shell

ADDPROG \* Graphics demo of how to add apro ALMANAC \* Calendar for windows ACTIVE LIFE \* Scheduler, Calendat & more BIG DESK \* Create a largevirtual desktop BIORYTHM \* Biorythm chart maker CASE \* Audio cassette inlay card printer EZFORM \* FormMaster, WYSIWYG forms FMCENTRAL \* Floppy disk formatter FMSOUND \* Soundblaster sound driver for windows FONTS \* 20 of the best hand picked (3) (ATM compatible also available in Truetype format GIF"BMP & Convert GIF's BMP's GIF"ICON \* Convert GIF's to ICONS GRABIT \* Screen grabber FPWIN \* Fractal paint & design program FONTGHY \* View and print Windows 3 fonts SMARTACC \* Accounts package for windows METZ UTIL \* Phone dialer, memory status, phone book desktop manager, task manager, WIN-INI \* Win.ini file editor ICONMAG \* Supposedly the best icon manager LENORD \* Drawing program with many features ORGANISE \* Sort of Filo Fax for windows PARWIN \* Genealogy/Family tree charting PIFHLP \* Pif Helper SMITH \* Home/Business accounts program ZMANGER \* Archive manager for windows SCRPEACE \* Screen Peace screen saver, nice WSCAN \* MacFee's virus scan for windows

### WINDOWS GAMES

YOURWAY \* Excellent personal info manager

AFORCE \* Space shoot-em-up ATMOID \* Asteroid games BG6 \* Colour backgammon BLCE12 \* Block breaker game CHOMP \* Packman style game CHOPTER \* Helicopter game JEWEL \* Jewel thief, steal jewels, avoid guards LUNAR \* Lunar lander simulation KLOTZ \* Tetris style game LIFE \* The game of life MAHJONG \* Tile game MINES \* Avoid the minefield, pretty good MRMIND \* Mastermind game PEGGED \* Fun peg game PUZZLE \* Slide puzzle, uses BMP pictures SPACEW \* Spacewalls shoot-em-up game WINCHK \* Checkers game WINCHS \* Windows chess WILNHNG \* Hangman game WINSLOT \* Slot machine game WINJACK \* Fast paced Blackjack card game W/WAR \* Wormwars centipede style game ZONEONE \* Risk style game YACHT \* Yatzee type dice game

### NOTICE

THIS SHAREWARE IS FOR EVALUATION PURPOSES ONLY. PAYMENT IS DUE TO THE AUTHOR IF FOUND USEFUL.

\*\*\*\* TAKE NOTE \*\*\*\*
REMEMBER TO INCLUDE
YOUR NAME ADDRESS AND
DISK SIZE WHEN
ORDERING PROGRAMS

### Educational Software......

Over 70 of the best titles from tots to teens!

### WINDOWS **FONT PACK**

A MOST DETAILED PERSONAL SELECTION OF UNUSUAL/ELEGANT **FONTS** TOTAL OF 100

(Also available in Truetype form)

### NEW PC USER PACK

Then this is the pack for you....!!! WORD PROCESSOR DATABASE/COMMS/GAMES/UTILITIES/ DOS-UTILS/ WINDOWS/TUTORIALS/AND MANY MANY MORE.....

A TOTAL OF 100 PROGRAMS SAVE OVER £75 ON NORMAL PRICES

### GIF PACK

SOME OF THE BEST GIF FILES AVAILABLE FROM SPACE TO **SIMPSONS OVER 50 PICTURES** 

(Complete with viewers & editors)

### PCX. CLIP-ART **PACK**

**OVER 10MB OF PCX** FILES SUJITABLE FOR MOST STP **PROGRAMS** 

### **BUSINESS STARTER PACK**

If you are running your business and thinking of using a Personal Computer then these are the programs for you.....From full accounting to invoicing to stock control. All you'll ever need in one PD package.....

### WINDOWS PACK

AN EXCELLENT PACK TO ADD ON UTILITIES FOR WINDOWS INC...... ICONS/FILEMANGER/ FONTS/IMAGE VIEWER **GAMES** 

### **GAMES PACK A** 50 OF THE BEST

**ARCADE GAMES** 

GAMES PACK B 50 OF THE BEST BOARD & CARD **GAMES** 

GAMES PACK C 50 OF THE BEST **ADVENTURE** 

**GAMES** 

**GAMES PACK D** 50 OF THE BEST **ASSORTED GAMES** 

A SPECIAL INTEREST LET US MAKE UP A PACK FOR YOU???? CALL FOR DETAILS (0623) 558057

### SOUNDBLASTER PACK

A COLLECTION OF UTILS AD ADD-ONS TO **ENHANCE YOUR SOUND** BOARD .... .MOD FILES/ VOC FILES/SOUNDBLASTER DIGEST MAGAZINE/ROL **PLAYER** A TOTAL OF OVER 10MB

### DISKS

3.5 FUJITSU UNBRANDED HIGH DENSITY **BOXES OF 100** 

CERTIFIED ERROR FREE WITH LABELS

CALL FOR AVAILABILITY £45.00

### DIAGNOSTICS/ **UTILS PACK**

AN IDEAL PACK FOR THE MORE EXPERIENCED USER INCLUDING. MEMORY MANGERS/FILE MANAGERS/ FORMATERS/ SPEED CHECKERS A TOTAL OF 50 **PROGRAMS** 

### **GENERAL PACK**

GENEALOGY/DIETING COOKING/HEALTH QUIT SMOKING/ **COLLECTING AND** MANY MANY MORE OVER 75 **PROGRAMS** 

MEMORY

**FUJITSU 1MB SIMMS 70NSC** 

CALL FOR AVAIL-ABILITY

25.0

### LUCKY- DIP PACK

A LITTLE BIT OF SOMETHING FOR **EVERYONE** 

100 PROGRAMS

**OUR LATEST CATALOGUE IS** DESPATCHED WITH ALL **ORDERS** 

SAVE ££££££££...BUY OUR VALU-PACK AT INCREDIBLE **SAVINGS** £14.99

EACH PACK INC P/P

**ALL ORDERS ARE SHIPPED** IN 24HRS **BY FIRST CLASS POST** 

### **SHARESENSE**

98 Chatsworth Street, Sutton-in-Ashfield, Notts. NG17 4GE TEL (0623) 558057

# Mail Order Express Distribution.

3 Barclay Oval Woodford Green Essex IG8 0PP





Call us on: 081-559-1704 7 Days 8.30am - 7.00pm

7pm - 8.30am answerphone service

Games Titles		Disks				
Aces of the Pacific	25.99			3.5 " ds/dd preformattted	3.5 inch ds/l	
B17 Flying Fortress	32.99	Lemmings	21.99	25 09.80	25	15.50
Castles	23.99	Oh no more Lemmings	15.99	50 18.99	50	30.99
Castles data disk	12.99	Links	26.99	100 36.99	100	59.99
Chessmaster 3000	23.99	Lure of the Temptress	TBA	200 72.99	200	116.35
Civilisation	25.99	Monkey Island	20.99	300 - 107.99	300	165.99
Conquest of the longbow	25.99	Monkey Island 2	23.99	500 170.99	500	269.99
Cruise for a corpse	21.99	Police Quest 3	25.99	All disks supplied come with labels p+p £2.95		
Darklands	TBA	Powermonger	TBA	Disk Boxes		
Dune	23.99	Prince of Persia	9.99	3.5 inch 20 capacity		1.50 A
Epic	22.99	Rocketeer	20.99	3.5 inch 100 capacity		4.75 B
Eye of the Beholder 2	23.99	Shadowlands	20.99	3.5 inch 250 capacity		22.99 C
F117a Nighthawk	25.99	Star trek 25th anniversa	ry 24.99	Miki Mouse		13.99 B
Gods	23.99	Willy Beamish	25.99			
Gunship 2000	25.99	Wing Commander delux	xe 32.99	Mouse mats		1.99 A
Heart of China	25.99	Wing Commander 2	25.99	Mouse pockets		1.45 A
Heimdall	23.99	Special Operations 1	14.99	3.5 inch cleaning kits		1.45 A
Legend	20.99	Special Operations 2	14.99	Zy-Fi stereo amplified sp	peakers	35.99B
Leisure Suit Larry 5	25.99	Speech Disks	12.99	14 inch Monitor Stand		10.49 B
P+P Only £1.00 on all software P+P Codes A 50p. B £1.00 . C £4.00						

### THE RACING BASE

Horse Racing
Computerised information
Runs on any PC with
at least 1 Megabyte of memory

Fully featured package includes

- \* Ready Reckoner multiple bets
- \* Speed figure creator
- Ratings and Prediction program and a complete statistical database with full details of

every jockey every trainer every course

All records can be edited and updated

THE MOST COMPREHENSIVE RACING PROGRAM CREATED and all for a fully-inclusive price of just £30 PLEASE STATE DISC SIZE

- Available NOW from:-

### A. Vassallo

138, Magnolia Drive, Colchester, Essex CO4 3LX

### MAKE YOUR PC EARN!

Yes making money with your PC becomes incidental when you know how!
Your PC is, if only you knew it, a gold mine. The size and make is irrelevant.

Make the initial effort NOW by starting your own

HOME BASED BUSINESS.

This may be the most important move you will ever make!

REMEMBER: You'll never get rich by digging someone else's "ditch".

Anyone in the country, including YOU, can become very rich in a relatively short period of time just by doing a few basic things! It's more rewarding than playing games.

The benefits are many and varied.
Full or part time.



31 Pilton Place, PCR8, King and Queen Street, Walworth, London SE17 1DR.

### **POOLS KING**

### RESULTS PREDICTIONS AND STATISTICAL INFORMATION PROGRAM FEATURES

- \* Input results for all divisions.
- \* Review/ Edit results.
- \* Predictions for all divisions using detailed formulae.
- \* Save predictions for future input of results.
- \* View all league tables .
- \* Also a form table for each division .
- \* Detailed home/away form for each team .
  - IE results of last 6 games home and away + opponents and a
- English premier 1,2,3 divisions. Scottish premier 1,2 divisions included.
- Plus a fantastic feature which allows you to create and delete teams/divisions
- Up to 300 teams
- Up to 15 divisions which means that you may include your local Sunday league, foreign country leagues or other sports leagues.
- Points for a win may be changed.
- \* Simple to promote/relegate teams and create /delete.divisions
- \* Data from last season included. File simple to maintain.
- Detailed help screens.
- \* Several printouts available (tables, Predictions etc)

For all IBM PC'S and compatibles. Please state monitor types Please send cheque/draft for £24.99 (+£3 P+P if outside UK and Ireland). Please state format of disk.

MR DAVID HEVER, CARRICKBANAGHER, DRUMFIN, BOYLE,
COUNTY SLIGO IRELAND.
Payable to: DAVID HEVER

TELEPHONE (010353) 71 83203

ONLY £24.99

### ACTION

### GOLDEN AXE Tronix, £9.99

An unusually successful conversion (in PC terms) of a traditional hack and slash coin-op – Golden Axe offers a choice of male and female heroes, but it's still all just straightforward macho bloodletting really.

### PRINCE OF PERSIA Domark, £30.64

The amazing animated characters are only eclipsed by the depth of the play. An extremely durable game, number four in our Readers' Top 50, and a genuine contender for the greatest action game ever.

### IVAN IRON MAN STEWART'S SUPER OFF-ROAD RACER Tronix, £9.99

It's high-speed, four-wheeldriven action all the way in yet another successful Virgin coinop conversion. More multiplayer fun than you can shake a gearstick at.

### SPEEDBALL

### Mirror Image, £9.99 (now delisted)

Hectic and brutal futuristic sporting action from the Bitmap Brothers, with pinball, basketball and martial arts rolled into one great sucker punch. Only surpassed by ...

### MUDS Rainbow Arts, £24.99

A peculiar 'future sport', where two teams of astonishingly ugly monsters try to throw an SFA (Small Furry Animal) into a basket. A strong blend of sick humour, action and strategy. Highly entertaining in a strange sort of way.

### VIRUS

### Mirror Image, £9.99 (now delisted)

A still-stunning 3D shoot 'em up (despite its advancing years), which rewards the time spent in mastering the controls with exhilarating and satisfying action.

### RICK DANGEROUS 2 Kixx, £9.99

As is this laugh-a-minute sequel, where the pint-sized hero once again has to negotiate his way through level after level of less than serious opposition. Pure platform-based arcade adventure over four levels packed with complex and testing puzzles. A hilarious masterpiece.

### **SPEEDBALL 2**

### (available on Bitmap Brothers' Vol 1 compilation at £30.99)

You guessed it! A worthy sequel to the impressive original, featuring a larger play area, new rules, harder and faster action and a whole new management structure. The updated pitch allows for more violent plays plays. It appeals to sports fans as well as play tacticians.

### **XENON 2**

### Mirror Image, £9.99 (now delisted)

Still the ultimate in straightforward shoot 'em ups, (above) featuring almost unlimited ship upgrades and a real difficulty curve. The

### INTERPHASE

Mirror Image, £9.99 (now delisted) A graphically impressive 'cyberpunk' 3D action adventure set inside a 'Big Brother' computer. Unusual and playable in equal parts.



### SIMULATION (FLIGHT)

### CHUCK YEAGER'S AIR COMBAT

Electronic Arts, £34.99

Electronic Arts makes a real bid for MicroProse's 'king of the sim' title with this multiplane flight and fight extravaganza, played out above three wars and scenarios and named after the first man to fly faster than the speed of sound.

### F-29 RETALIATOR Ocean, £34.99

An impressive, if slightly simplistic, simulation debut from the movie tie-in specialist. Good speed, multiple missions and a choice of two experimental craft make this a good choice for those who value instant action over accuracy.

It also includes an option to play head-to-head with

another human player via a modem. With the possible exception of Jetfighter, this has the easiest controls on any flight simulator. It's pure fun from the moment you take off.

### F117A STEALTH FIGHTER

MicroProse, £39.99

Nothing less than the state of the art in both subject matter and programming technology, F117A features multiple radarinvisible missions over five theatres of war. Seeing is believing - an absolute must for serious flight fans. Apparently this simulation caused quite a stir in military circ when it came out because of its accuracy. There are plenty of theatres of war in which to fly the craft. including Central Europe, the Middle East, Libya, Korea and

Northern Cape, which vary in complexity and difficulty.

### FALCON 3.0 Spectrum HoloByte, £49.99

Reviewed in PC Review Issue 4, Falcon 3.0 offers a strong action-based complement to MicroProse's F117A (see above). Beautifully presented, this simulation features head-to-head combat at the controls of the USAF's pride and joy, the F-16 Fighting Falcon. As good as they come.

### Rated 9

### **GUNSHIP 2000**

MicroProse, £39.99

A nice break from the usual fixed-wing action, Gunship 2000 is a strong progression from MicroProse's original (and highly popular) chopper simulation, with a strong

# **DEALER**DIRECTORY

### **MICROSNIPS**

25-29 GRANGE ROAD WEST BERKENHEAD MERSEYSIDE L41 4BY

TEL: 051-6500500

# FAXMINSTER Specialist computer centre

Unit 81 The Galleria Hatfield, Hertfordshire AL10 9TF

TEL: 0707 272919 FAX: 0707 278449

### **TOPSOFT COMPUTERS**

3 HAMBLETONIAN YARD STOCKTON-ON-TEES CLEVELAND TE18 1BB

> TEL: 0642 670503 FAX: 0642 670956

Specialists in all areas of home computing stocking a massive range of IBM PC Compatible leisure software

### BOLTON COMPUTER CENTRE

148-150 CHORLEY OLD ROAD BOLTON BL1 3ET

TEL: 0204 41937

# **DEALER**DIRECTORY

ROMSOFT
3 Abbey Walk
Church Street
Romsey
Hants
Tel
0703 738505

### A/R COMPUTERS

2GLASS STREET
HANLEY
STOCK-ON-TRENT
STAFFS
ST1 2ET
TEL: 0782 201471

### YORK COMPUTER CENTRE

9 DAVYGATE CENTRE DAVYGATE YORK NTH. YORKSHIRE TEL: 0904 641862 FAX: 0904 611375

We stock a wide range of software hardware and accessories for most PC's try us!!

### WORTHING COMPUTER CENTRE

7 Warwick Street Worthing West Sussex BN11 3DF Tel: 0903 210861

Fax: 0903 232767

Large selection of PC Amiga and Atari ST software as well as a complete range of computer accessories

### SIMULATION (FLIGHT)

storyline built in. Highly recommended.

### FLIGHT SIMULATOR v4.0

Microsoft, £45.00

An all-out 'simulator' as opposed to a 'simulation', version four offers precious little combat, but does offer the most realistic recreation of real flight that's possible to get from any home computer. The big Daddy of PC flight sims and a real learning experience.

### KNIGHTS OF THE SKY

MicroProse, £40.86

Chocks away for a historical joyride over the trenches of World War I in France. What it inevitably lacks in speed, Knights of the Sky makes up for with tense and gripping dogfight action. A nice break from the usual array of F-birds.

### LHX ATTACK CHOPPER

Electronic Arts, £39.99

Although it's now been superseded by MicroProse's Gunship 2000, LHX Attack Chopper still offers a mix of strong action, unusual gameplay (with unusual experimental aircraft) and a structure which works well enough for experts and amateurs alike. Control is simple yet comprehensive. It contains a wealth of gameplay options and three scenarios – set in Libya, Vietnam and Europe.

### MiG-29 SUPER FULCRUM

Domark, £44.99

The sudden and unexpected end to the cold war allowed Western developers, game designers and programmers to check out and recreate a number of Soviet aircraft, the best result of which was this game, reviewed in Issue 2. In keeping with these changes, the aim of this game is to maintain the new world order. As a member of a UN peacekeeping force you are sent to free an unnamed area of South America which has come under rebel domination. Your goal is to knock out their headquarters. No easy task as the rebels themselves possess an impressive array of weaponry. Aircraft buffs will

undoubtedly enjoy flying this less technology-heavy plane. **Rated 7** 

### **RED BARON**

Dynamix, £39.99

It really needs a powerful PC to operate to its optimum ability, but once this is taken care of this is one of the most accurate and option-heavy simulations available. The most highly rated flight sim in our Readers' Top 50.

### JETFIGHTER II Velocity, £39.99

Concentrating on easilyaccessible 'arcade-style' action rather than 'true'; simulation, Jetfighter II offers four aircraft, multiple enemies and 100 missions. Neat, polished, accessible and lavishly presented.

### SECRET WEAPONS OF THE LUFTWAFFE

Lucasfilm, £40.99

Lucasfilm is a company which specialises in producing top-notch games in two distinct areas: animated graphic adventures (The Secret Of Monkey Island etc.) and historical flight sims, the best of

which is this beauty, first reviewed in Issue 1. The premise of the game is what if the jet and rocket-powered weapons the Germans were working on in the dying days of the war



came into general use and their effect on the outcome of the war. Extra missions disks are now available. Rated 6

### SIMULATION (DRIVING)

### **4D SPORTS DRIVING**

Mindscape, £30.99

A hybrid of Domark's Hard Drivin' and Accolade's Test Drive games (more later), developer DSI's 3D racer is a one-on-one against an equally well equipped opponent. As an added bonus, comes complete with a course designer.

### BILL ELLIOT'S NASCAR CHALLENGE

Konami, £35.99

The trouble with North American Sports Car racing is that it all takes place on a circular course, which limits the game's variety. That aside, this is a good rendition of one of the fastest four-wheel activities there is. The game includes a host of options. You can choose cars, tracks, type of race – qualifying, apprentice or main event.

### **INDIANAPOLIS** 500

Electronic Arts, £29.99

Among the greatest simulations of any type available for the PC. You race against 32 other drivers in your bid for glory as the simulation takes you from initial practice, warm-up laps, qualifying heats and the big race itself.

Gasp in amazement at the realism ... then do it all over again using one of the spectacular replay options. Unsurpassed.

### HARD DRIVIN' 2 -DRIVE HARDER Domark, £30.64

Not so much a sequel, as a second attempt at converting a difficult coin-op, with both conventional and stunt courses – and a good thing too as this is far better than the original. Much more playable and now a real challenge.

### MARIO ANDRETTI'S RACING CHALLENGE

Electronic Arts, £29.99

Putting you at the wheel of everything from an F1 thunderbolt to a dirt-track buggy, MARC is as much fun as it is well executed. Only for users with faster processors though.

### **TEAM SUZUKI**

Gremlin, £29.99
You get the chance to ride three classes of mototbikes, a 125cc with six speed automatic gearbox, and 250cc and 500 cc bikes both with six speed manual



gearboxes. The game features a TV camera option so you can see yourself race. Team Suzuki is difficult to master but well worth the trouble – especially for bike fans. Reviewed in Issue 1.

### TEST DRIVE III - THE PASSION

Accolade, £30.64

The 'passion' in the title presumably refers to the way that owners feel about the luxury cars featured here including a top of the range Lambourghini.

Apart from that, it's a standard 3D driving sim with a few nice bells and whistles thrown in for good measure. Last of a series featuring gorgeous cars and various courses to drive them on.

# **DEALER**DIRECTORY

### **AZURE COMPUTERS**

535 Bromford Lane Birmingham B8 2EA

Tel: 021 789 6216 Fax: 021 789 8499

We stock latest software and hardware for PC free 24hr despatch available

### SIMULATION (OTHER)

### SILENT SERVICE 2

MicroProse, £35.75

Historically and technically accurate (right down to the profusion of unreliable torpedoes), SS2 takes some mastering but it's worth every minute. Some of the combat may seem over simple but it does provide an engrossing tactical experience of being an American WWII commander in the Pacific Ocean. It's got atmosphere in depth.

### DAS BOOT Three-Sixty, £35.99

An unusually coherent and playable mix of action and strategy, this U-boat sim may not be as comprehensive as Silent Service 2, but it's a sight more accessible.

There are no huge manuals to read and you can get straight down to the action with training missions. These allow you to quickly get to grips with your submarine and get some quick battle experience. Most combat elements are included such as

torpedo runs and anti-aircraft gunnery

### TEAM YANKEE Empire, £35.75

Based on Harold Coyles's novel, this is a similar game to MicroProse's M1 Tank Platoon, and a little more complex strategically. This is mainly down to having to control four platoons simultaneously.

Team Yankee is also distinguished by the use of bitmapped graphics for the 3D rather than filled polygons. This helps to give the game a more absorbing atmosphere than many other similar simulations.

### M1 TANK PLATOON MicroProse, £40.86

A good tank simulation, made better by the fact that (as the name suggests), you take charge of a whole group of the metal beasts. There is a choice of engagements ranging between easy and hard, with optional enemy capabilities, from second line troops to the very best. Well structured and engrossing.

### RAILROAD TYCOON MicroProse, £35.75

A completely unique game – take control of a fledgling railway in the heyday of steam and use your business acumen to take it across an entire continent – wiping out, or buying up, the opposition on the way. This forerunner of the superb strategy game
Civilization is definitely not to be missed.

### SHUTTLE Virgin, £49.99

Reviewed in Issue 5, this comprehensive space flight simulator is based on NASA's space missions up to the ill-fated Challenger in 1986. Incredibly detailed and will need concentrated hard work before you get into it and become proficient, but it's worth it – the authenticity is second to none.

Rated 8
PC Review Recommended

### **GB MICROLAND**

7 Queens Parade (opposite MacDonalds) London Rd Waterlooville Hampshire

Tel: 0705 259911

### MR DISK COMPUTER CENTRE

8 SMALL BROOK QUEENSWAY BIRMINGHAM B5 4EN

> TEL: 021 616 1168 FAX: 021 616 1256

Birmingham's premier computer centre supliers of PC compatibles accessories and leisure software expert help always available.

### STRATEGY WAR

### COMMAND HQ MicroProse, £34.99

Similar in some ways to the popular board game Diplomacy, Command HQ puts the player in charge of everything the West's got in any one of three historical situations and one futuristic scenario set in 2023. The scenarios increase in complexity as the date progresses. For instance, you can start out with infantry, cruisers and subs in the early scenarios and end up with nuclear weapons, satellites and other high tech equipment in

the later ones. Economics also plays a key role in the success of your war campaigns.

### SUPREMACY Virgin, £34.99

Two huge civilisations battle it out for a single star system. Attack planets and then exploit them for resources vital to the war effort.

Slick graphics and a more than user-friendly interface turn what's essentially a political power struggle into a hugely enjoyable mental workout – a most rewarding evening's entertainment.

### HARPOON CHALLENGER PACK

Three-Sixty, £49.99

A good value package which comprises the highly-acclaimed naval simulator, plus its North Atlantic Convoy BattleSet – a must for serious naval strategists.

### UMS II

Rainbird, £40.86

Make your own wargames with this extraordinarily complex but powerful wargame generator. A program for anyone who feels serious about strategy gaming.

### DATAGEM

23 Pitfield Street London N1 6HB

Tel: 071-608-0624

# **DEALER**DIRECTORY

### **COAST COMPUTING**

137/141 NORWOOD ROAD SOUTHPORT MERSEYSIDE PR8 6EL

> TEL: 0704 501368 FAX: 0704 533142

We carry a full range of IBM PC Compatible hardware / software for business and leisure

> PLEASURE DROME 6 Railway Court Dufferin Avenue Bansor Co Down BT20 3bu

Tel: 0247 455327 Fax: 0247 455327

Because you're never too old to have a happy childhood

### VIKING COMPUTER CENTRE

Ardney Rise Norwich Norfolk NR3 3QH Tel: 0603 425209

One stop shopping for all your home and business computing needs - Norfolk's leading suppliers.

# BOLTON COMPUTER CENTRE 148-150 CHORLEY OLD

RD BOLTON BL1 3ET

TEL: 0204 41937

### FANTASY RPG

### **BUCK ROGERS**

SSI, £35,75

An unusual, highly successful, computer appearance for one of the cinema's early heroes. A conversion of a TSR board game, this has all the usual SSI hallmarks: strong presentation, atmosphere and depth. It uses a variant of the AD&D computer games control system.

### BARD'S TALE 2

### Star Performers, £9.99 (now delisted)

The second – and arguably the most enjoyable – of the Bard's Tale series is one of the best of the 'old-style' (non-arcade) RPGs. Soon to be bundled with the other two in the series.

### CORPORATION

Core Design, £34.99

Very much in the '3D arcade' vein, Corporation achieves something which most computer games can only dream of – it creates and maintains a wholly realistic environment. It's a futuristic space opera in the confines of an overrun conglomerate. You must lead an elite team, equipped with stunning hightech gear, enter the building and find out what is going on.

### ELVIRA, MISTRESS OF THE DARK

Accolade, £29.99

Although it's not exactly the type of game that you might expect from America's up-front queen of the B-movie (in other

words, it's a tenuous licence tie-in), Elvira remains an impressive (if slightly shallow) adventure, nonetheless.

### **MARTIAN DREAMS**

Origin, £36.99

Origin's second adventure outside of the acclaimed Ultima stable is an historic scifi jaunt in the style of H.G. Wells. Flawed, but enjoyable.

### TUNNELS & TROLLS

New World, £30.99 (now delisted)

Once again based on a

popular board-based RPG, T&T doesn't have a lot to offer in the presentation department, but makes up ground with a well structured plot. Combat can be automatic or manual and can even be humorous – such as pushing enemies away. Perhaps a little dated

### WASTELAND Electronic Arts, £24.99 (now delisted)

Not notable for its up-to-date interface, Wasteland is however worth checking out for its unusual scenario – a post-holocaust nightmare replaces the usual dungeon-based stuff.

### THE SAVAGE EMPIRE

Origin, £35.99
The one that came

The one that came before Martian Dreams, Savage Empire borrows from the plot

### EYE OF THE BEHOLDER

SSI, £25.99

Conceived and executed in the style of the classic Dungeon Master, Eye of The Beholder is exciting and challenging in equal measure. It's one of the highlysuccessful Advanced Dungeons and Dragons games based on the TSR role-playing tabletop game. First you

must choose your party of adventurers, their race (human, dwarf, elf etc) attributes (strength, intelligence) and a whole host of other details. The adventurer's view is of a 3D dungeon and all the controls are mouse-



driven. SSI has managed to maintain the feel and atmosphere of the original game while making the AD&D experience available to a lot more people.

### **BRAIN TEASERS**

### LOGICAL

Rainbow Arts, £19.99

Nicely paced and colourful arcade-based teaser which may just fail to provide any longterm interest.

### **E.MOTION**

US Gold, £35.00

An infuriatingly compulsive arcade teaser that's as hard to describe as it is to put down. It involves matching coloured balls together causing them to disintegrate. When they have all gone you move to another level – of which there are 50. Only approach it if you've got a lot of time on your hands. It was – and still is – an wholly original game.

### SARAKON

Leisure Genius, £19.99

Similar to Shanghai, and also based on Mah Jongg, Sarakon stands head and shoulders above most of its contemporaries - in terms of difficulty at least. A 16x16 squared grid forms the basis, Square tablets each with a variety of symbols are placed randomly on the grid. The idea - as with many card games - is to combine and discard pairs of tablets until the grid is cleared. However, tactical play adds complexity. The first level of play is called 'Stupid' and that's how you'll feel when you fail to complete it. Not for the faint of heart.

### THE SENTINEL

Firebird (now delisted)

Worth scouring the bargain bins for, Geoff Crammond's masterpiece is a rare breed – a strategy game loosely comparable to chess which can only exist inside a computer.

Easily the most atmospheric game of all time.

### SPOT

Leisure Genius, £24.99

Easily confused with the board game Othello, this is actually an original game of its own – and a rather good one too. The original game is now quite old, but was recently revamped and relaunched.

# THE PEOPLE'S CHOICE FOR PC ACCESORIES

GAME	PRICE	GAME	PRICE	GAMES	PRICE	- 11- 00
A320 Airbus		Games:		Pacific Islands	£27.95	2 1 /2 !!
Advanced Destroyer		Winter Challenge	£27.95	Plan 9 From Outer Space	£29.95	
Simulator	£18.45	Gateway To The Savage		Police Quest 3	£29.95	
Alpha Waves		Frontier	£22.95	Pools of Darkness		
Arachnaphobia	£22.95	Gods		Prince of Persia	£22.95	Double Sided
Advanced Tactical		Gold Of The Aztecs		Pro Tennis Tour 2	£27.95	
Fighter 2	£7.95	Golden Axe		Pushover	£22.95	Double & High Density
Bard's Tale 3	£8.95	Gunship	£27.95	Puzznic	£22.95	8
Bard's Tale Trilogy	£29.95	Gunship 2000	£29.95	Railroad Tycoon		OUANTITY DD HDP
Battle Chess	£8.95	Heart of China	£29.95	RBI 2- Baseball		10£4.75£7.45
Battle of Britain		Heimdall	£27.95	Red Baron		20. £9.25. £14.75
Battles Command	£22.95	Helter Skelter	£14.95	Rick Dangerous		25£11.30£17.50
Blues Brothers		Hook		Rise of The Dragon		30£13.25£20.95
Booly	£18.45	Hyperspeed		Risk		35£15.10£24.15
Boston Bomb Club	£18.45	Immortal	£22.95	Robin Hood		40£16.90£27.40 45£18.80£30.75
Buck Rogers	£27.95	Imperium	£8.95	Robocop	£14.95	50£20.50£32.95
Buck Rogers Matrix		Indianapolis 500	£22.95	Rules of Engagement	£27.95	80£32.45£49.95
Cubed		Indiana Jones (Act)	£6.96	Secret Weapons of		100£36.90£58.95
Carrier Strike	£29.95	Jack Nicklaus		The Luftwaffe	£29.95	120£43.70£69.60
Castles	£27.95	Signature Edition	£29.95	Shadow Sorceror		150£53.85£85.85 200£68.95£109.85
Centurion		Jet Fighter II		Shanghai 2		300£103.45£161.95
Chess Champion 2175		Jones In The Fast Lane		Shuttle		400 £136.95 £209.95
Chess Simulator		Kings Quest V	£34.99	Silent Service II		500£167.50£254.95
Chessmaster 2100		Legend	£27.95	Sim Ant	£27.95	ANALOGA A ANGLE C. O. MALA DED A NICENI
Chessmaster 3000		Leisure Suit Larry V	£29.95	Sim City Populous		WITH LABELS & WARRANTY
Chuck Yeager 2		Lemmings		Sim Earth		BOXES
Civilisation	£29.95	Lemmings (Stand Alone)		Simpsons	£22.95	
Cohort	£22,95	Lemmings (Data Disk)		Space 1889		(with keys and dividers)
Command HQ	£27.95	Les Manley Lost In L.A	£27.95	Space Quest V		10 Slimpack
Conan The Cimmerian	£27.95	Les Manley 's Search For		Space Wrecked		40 Capacity£4.95
Corporation	£18.45	The King		Get All The Girls		50 Capacity£5.60
Countdown	£22.95	LHX Attack chopper		Sorceror's Appliance	£29.95	80 Capacity£6.30 100 Capacity£6.80
Covert Action		Links		Spirit of Excalibur		120 Capacity£8.75
Crime Time		Links - Extra Courses		Sports Best		150 Deluxe stackable£21.95
Cruise for a Corpse		Logical		Spot		
D-Generation	£27.95	Mad T.V.		Star TrekSteel Empire		JOYSTICKS
Daily Double Horse	014.05	Magic Candle	£22.95	Stellar 7		
Racing		Magnetic Scrolls	C27.05	Strike 2		
Demoniak		Collection	£27.95	Stunt Car Racer		Quickshot Warrior£11.00
Dragons World	£22.95	Manchester United	C22.05	Superski 2	£22.05	
Dragons Lair II		Europe		Super Tetris		Quickshot + Joystick
Dune		Manhunter 1&2	£21.93	Supremacy		Card£15.75
Elite Plus		Mario Andretti's Racing	622.05	Team Suzuki		
Elvira	£29.95	Challenge		Tennis Cup 2	£22.95	Topstar£22.50
Elvira 2	£29.95	Martian Dreams		Terminator		Gravis Analogue£45.00
Epic	£27.95	Martian Memorandum	£29.93	Terminator 2		
Eternam		Mean Streets Medieval Lords	£22.93	Test Drive 2		CH Flight Stick£40.50
European Super League		Megafortress		Test Drive 3		
Exterminator Eye of the Beholder		Megatraveller I		Timequest		MISCELLANEOUS
		Megatraveller II		Titus the Fox		
Eye of the Beholder 2 F-15 Strike Eagle II		Merchant colony		Trial By Fire		PC (TX-3) Mouse
F-16 Combat Pilot		Mig-29 Super Fulcrum		Tunnels and Trolls		£17.95
F-19 Stealth Fighter		Might and Magic II		Ultima IV, V, VI		
2.0	£20.05	Monkey Island		Ultima VII		PC (TX-3000) Deluxe
F-29 Retaliator		Monkey Island 2		Ultima Underworld		Mouse£26.85
Final Conflict		Moonshine Racer		UMS II		
Falcon 3.0		Night Shift		Wayne Gretsky 2		PC (PS2) Mouse£33.49
Fire Hawk		No Greater Glory		Western Front		Mouse Mat£2.95
Flight Simulator 4		Operation Stealth		Willy Beamish		
Floor 13		PGA Tour Golf		Wing Commander		Disk Cleaner£3.75
Fun School (Range)		PGA Tour Golf		Wing Commander 2		
an School (Kange)	10.43	1 G/1 Courses Disks		Wonderland		

All prices include UK postage and VAT and are effective until 21ST August 1992

New titles will be sent as they are released and are subject to to manufacturers price reviews.

**Credit Card orders:** 

(10.00am - 10.00pm, 7 days not an answer phone)

071 - 608 - 0624

Cheques/Postal Orders to

DataGem Ltd, Dept PCR, 23 Pitfield Street, London N1 6HB Showroom open Monday - Friday 10am - 6pm Exit 2, Old Street Tube

All orders taken subject to our standard terms & randitions

## **DEALER** DIRECTORY

#### **ELECTRIC DREAMS**

C/O ALLDERS **NORTH END CROYDON** SURREY

TEL: 081 681 2577

#### **JOYSTICK**

130 Victoria Road West Cleveleys Blackpool Lancs

Tel: 0255 862718

#### **BRAIN TEASERS**

#### **CHESSMASTER 3000**

Software Toolworks, £25.99

Computer chess is computer chess - right? Well, yes ... but this one (reviewed in Issue 4) takes the pride of place through its presentation and user friendliness.

Rated 9

#### VAXINE US Gold, £25.99 (now delisted)

A sort of follow-up to E.Motion, this adds an extra dimension - well, in graphic terms at least. You roam as an abstract representation of the body shooting rogue virus cells. The action ranges over 99 levels with faster and meaner germs being introduced all the time. A new age pastime for the modern puzzle addict.

#### WELLTRIS

Infogrames, £30.64

From the same fomer Soviet scientists who brought you Tetris comes this 3D variation. The object is still to manipulate falling shapes, but the 3D aspects means the pieces appear to fall from above. It's good enough but how can you improve on perfection?

#### SHANGHAI II

Activision, £35.99 A test of memory and skill using the Mah Jongg card set, this is now available in numerous PD incarnations, although none as polished as this 'official' version (reviewed in Issue 1). Rated 7



#### **PIPEMANIA** Empire, £25.53

Second only to the great Tetris as an invisible hour eater, this tale of twisting pipes and water will provide a challenge to even the hardest gamer.

#### KLAX

Respray, £7.99

An unusual block-based game which uses colour coding rather than shapes to generate its puzzles. Not as addictive as Tetris, but a nice short-term diversion.

#### LOOPZ

Audiogenic, £25.53

Unusually compulsive puzzler which adds a new twist to the art of shape manipulation. Hard to find, but worth keeping an eye out for.

#### **NIGHT SHIFT**

Lucasfilm, £30.99 (now delisted)

More of an arcade game than a pure puzzler, this does however have enough teasers incorporated to keep most gamers happy. Nicely humorous too.

#### **TETRIS**

Infogrames, £24.99

The greatest puzzle/dexterity game of all time. This Soviet sensation involves moving different shaped blocks to fit them together. Everytime a horizontal line is completed it disappears. The more lines completed, the more points you collect. Watch out for the original Mirrorsoft version, which is still the best around. A classic timeless game.

#### **DEVRON**

167 SHENLEY RAOD **BOREHAM WOOD HERTS** WD6 1AH

TEL: 081-953-1283

multi-views of the fights and also allows you to train and develop your fighters. Control of the fighters is also comprehensive, allowing you to walk towards an opponent, back off, circle left and right

#### **4D SPORTS BOXING**

Mindscape, £30.99

They don't look very much like boxers, but the strange polygon-based pugilists featured here certainly move like them. The game features

fun if played in company.

#### BUDOKAN

Star Performers, £10.99

and punch. The game is most

Electronic Arts' multiple event martial arts challenge is still the best game of its type available. Players train in four forms of combat: karate, kendo, nunchaku and the bo staff. During fights you must keep an eye on stamina and ki levels as these determine your state of health. Excellent sound and graphics and an unusual level of depth and excitement.

#### **HARDBALL 2**

Accolade, £25.53 (now delisted)

The definitive rendition of America's favourite sport available for your computer.

Access, £40.99

A graphically impressive and option-filled variation on the age-old theme of computer

#### **CRAZY JOES**

145 Effingham Street Rotherham South Yorkshire S65 1BL

Tel: 0709 829286

#### TV SPORTS BASKETBALL

Cinemaware, £30.64 (now delisted)

Unlike most previous attempts at producing a realistic

computer basketball simulation, this game doesn't try to fit in the whole court at once and is greatly enhanced because of this.

Essentially you control one on-screen player at a time, the rest of the

players behave according to chosen tactics. Action ranges from pure arcade friendly game to hard-fought league matches. Competitive and playable.

#### **CLASSIC GAMES GUIDE**

golf. Be warned though, it's only for those of you with powerful machines.

#### **PGA TOUR GOLF**

Electronic Arts (available as PGA Plus with extra courses pack, £34.99

Overall, this has to be the best golf game currently available on any computer. It may not have Links' looks or options, but it makes up for this in terms of sheer playability.

#### **POWERBOAT USA**

Accolade, £30.99 (now delisted)

A deceptively playable simulation of a sport which most of us would never even think about taking part in.

Ignore the poor presentation —

this could become a favourite.

#### PRO TENNIS TOUR 2 Hit Squad, £9.99 (budget

release imminent)

Multiple options are available, it looks good, it plays well – what more could you want? Choices include singles and doubles matches and type of court surface. There's even an option to play two on one. Reviewed in Issue 2, this is a definite ace.

#### Rated 8

#### SKI OR DIE

Star Performers, £10.99

A multi-event affair which takes a lighthearted view of Fergie's favourite winter pastime. There are five subgames: snowball blast, downhill blitz, acro aerials, snowboard halfpipe and the intertube thrash. Points are scored for being the fastest or being able to leap the furthest. Easy to get into and most enjoyable to boot.

#### TV SPORTS FOOTBALL

Mirror Image, £9.99 (now delisted)

This is, of course, American football rather than soccer. It combines strategy plays with fast arcade action.

No longer the state of the art in terms of programming, but still a comprehensive and enjoyable rendition of the sport. Made more accessible than most by the usual Cinemaware TV presentation.

# **DEALER**DIRECTORY

#### TOMORROWS WORLD

27-33 PARAGON STREET HULL HU1 3NA

TEL: 0482 215585

#### **ADVENTURE**

#### HEART OF CHINA Dynamix, £39.99

Another attempt at producing an interactive movie, Heart of China is notable for its arcade subsections and – more importantly – its beautiful digitised graphics.

Set in the 1920s in Hong Kong, the basic plot involves the rescue of a nurse who has been kidnapped by a ruthless tyrant. The point and click game control interface works smooth, removing the need for any typing. This evocative action adventure is a must for VGA users.

#### LEISURE SUIT LARRY V

Sierra, £39.99

The other side of Sierra (contrasting nicely with the 'family' style of King's Quest, etc,) is best depicted by Al Lowe's luckless lover boy, who this time around goes in search of the missing disks of Leisure Suit Larry IV.

Here Larry must interview women to find a hostess for a sleazy TV show. But to Larry's cost, the Mafia becomes involved. More cheeky chuckles for fans of the series.

#### SORCERERS GET ALL THE GIRLS

Legend, £30.64

Not as saucy as the title suggests, this is nevertheless an engrossing and perplexing adventure from the old school. It's really just a text adventure, but a complex, entertaining and satisfying one nonetheless.

#### MAGNETIC SCROLLS COLLECTION 1 Virgin, £34.99

Reviewed in Issue 1, this three game package updates some of the adventure specialist's best-loved works using the all-new 'Windows' system (as seen in Wonderland). The games included are Corruption, Fish! and Guild of Thieves. Good value.

Rated 7

## THE SECRET OF MONKEY ISLAND

Lucasfilm, £30.99

A real joy to play, Lucasfilm's first tale of dark doings on the high seas used the wealth of experience gained over five years of development, Indiana Jones, etc, to produce one of the best adventures yet.

The game is divided into three parts: the first deals with hero Guybrush Threepwood's attempets to become a pirate; the second his journey to Monkey Island; and the third all about the island itself. Good music, neat animation and

detailed graphics and a superb control system all combine to produce an enjoyable experience.

#### THE SECRET OF MONKEY ISLAND 2 Lucasfilm, £39,99

More buccaneering brilliance with a smile on its face, as the original's hero, Guybrush Threepwood, once again takes on the evil ghost pirate LeChuck, this game demonstrates just how many brain-teasers can be constructed within the limitations of an icon-based control system. Outstanding VGA graphics with impressive lighting and shading add to the piratical atmosphere. It's also packed with jokes. Reviewed in issue

Rated 9

from the original.

#### SPACE QUEST IV Sierra, £39.99

3, this is a perfect progression

In yet another ongoing saga, Sierra's comical space hero,

#### **AB COMPUTERS**

2 WHITE FRIAR COVENTRY CV1 2DU

TEL: 0203 550999

#### DATA DIRECT

53 RUGBY ROAD WORTHING WEST SUSSEX BN11 5NB

TEL: 0903 700 811

#### INDIANA JONES AND THE LAST CRUSADE

Lucasfilm, £30.99

One of the great animated graphic adventures, with

plenty of atmosphere, and humour, which has only really been surpassed by Lucasfilm's subsequent efforts (now available in a double pack with Zak McKracken And The Alien Mindbenders).



#### **HARRODS**

ELECTRIC DREAMS
COMPUTER
DEPARTMENT
87 Brompton Rd
KNIGHTSBRIDGE
LONDON SW7
Tel: 071-730-1234

# **DEALER**DIRECTORY

PC PROMOTION
COMPUTER HOUSE
86 GEORGE STREET
NEWCASTLE UNDER
LYME
STOCK ON TRENT
SD5 10N

TEL: 0782 711237

#### **COMPUTERWISE**

394 Birmingham Rd, Wyld Green, Sutton Coldfield Tel: 021-382-3252

#### ROADRUNNER Distribution

Unit 14
GUILDHALL IND ESTATE
KIRKSANDALL
DONCASTER
DN3 1QR

TEL: 0302 890000

#### HEWARDS HOME STORES

822-824 KINGSTANDING ROAD KINGSTANDING BIRMINGHAM B44 9RT

Tel: 021-354-2083

#### **ADVENTURE**

Roger Wilco, once again boldly goes on a mission that's about as much to do with time travel as space exploration and never takes itself too seriously. Sierra fans will know exactly what to expect – the unexpected! And that means he has somehow landed slap bang in the scenario for Space Quest XII: Vohaul's Revenge and becomes involved with the Sequel Police who believe Roger's adventures have gone on far too long. Easy point and click interface control, odd-ball puzzles and digitised artwork.

#### SPELLCASTING 201

Legend, £34.99

Like Sorcerers Get All The Girls, this one was developed by the master of the tongue in cheek adventure game, Steve Meretzky. Reviewed in Issue 1, Spellcasting will appeal to any adventurer who doesn't take things too seriously.

Rated 7

#### WONDERLAND

Virgin, £34.99

An adventure built and played through an all-new 'Windowsstyle' user interface, Magnetic Scrolls' Wonderland turns Lewis Carroll's masterpiece into an absorbing beautiful game.

#### KING'S QUEST V

Sierra, £39.99

Roberta Williams' King's Quest was the original animated adventure game – and over the years the series has gone from strength to strength. Highly entertaining and user-friendly, this is well worth clearing out your hard disk for.

## CRUISE FOR A CORPSE

US Gold, £30.99

A whodunnit set on the Karaboudjan yacht in the 1920s featuring Delphine's Cinématique graphic interface. Reviewed in Issue 6.

#### ARCADE STRATEGY

#### **BATTLETECH 2**

Infocom, £35.99

Based on a highly popular futuristic combat board game, Infocom's Battletech showed in no uncertain terms that there was potentially more to that late, great company than text adventures.

Here huge mechanised monsters – Mechs – stride the land battling out with huge and powerful weapons. But this isn't just a shoot 'em up. There is a large degree of strategy involved. Reviewed in issue 3. **Rated 5** 

## 3D CONSTRUCTION KIT

Domark, £49.99

Build your own 3D worlds with this unusually powerful game creator from the team that brought you Total Eclipse and Driller. As well as constructing the geometric scenery, you can also add your own borders and music, and set up animated effects.

#### CASTLES

Electronic Arts, £34.99

Probably the only computer game ever to be set in Wales, Castles sees the player design, build and then defend a castle. One for the long-term strategist.

## **BATTLE CHESS II** Electronic Arts, £29.99

A follow-on from EA's original animated chess game, this brings the pieces to life in the same humorous way as its predecessor, while introducing the more unusual rules of Chinese Chess to a Western audience.

#### **ELITE PLUS**

MicroProse, £39.99

Not so much a sequel as an upgrading of the classic space trading game. The aim is to achieve elite status in the areas of combat, trading and piloting your ship. The space battles are immense fun, providing a clean contrast to the trading sections.

#### STAR TREK: 25TH ANNIVERSARY

Interplay, £34.99

Attractive rendition of the longrunning TV series which concentrates on playability rather than authentic, digitised character portraits. You play Captain Kirk, with eight different missions to accomplish with the help of your crew. Atmospheric, if not very profound.

Rated 7
PC Review Recommended

#### GODS

Renegade, £30.99

Reviewed in Issue 4, this was the first attempt at an arcade

adventure by the Bitmap Bros. "The best platform game to appear on the PC to date." **Rated 8** 

#### **POPULOUS**

Star Performers, £10.99

This is one of the rare breed that's so mould-breaking that it's almost become a generic term. Now available in a double-pack with Sim City, this is unusual, indescribable and a true work of genius – buy it.

#### MIDWINTER

Rainbird, £35.75

An instant classic, Maelstrom Games' 3D extravaganza looks so good that you might just forget it's an all-action game too. It covers 'green' issues including global warming and the threat of a new ice age. A landmark in computer entertainment. Look out also for its sequel, Flames of Freedom, which boasts more of everything (locations, characters, vehicles), with a similar playing style.

#### CIVILIZATION

MicroProse, £39.99

From the pen of Sid 'Railroad Tycoon' Meier, Civilization (reviewed in Issue 1) takes the player on a power trip through history. As the leader of



a pre-historic wandering tribe you start out by finding a place to settle, expanding your population and the lands they inhabit. Slowly you lay the foundations of a society, building roads, towns, cities etc, and prepare for attacks from barbarian tribes. An immensely satisfying strategy game of planning, conquest, negotiation and exploration. Thoroughly addictive. Rated 7

#### **POWERMONGER**

Electronic Arts, £34.99

Bullfrog's next one on from Populous didn't have quite the same impact as its predecessor, but it remains a classic war game and graphically impressive to boot.

The amount of detail in the game is incredible – birds rustling feathers, voices of blacksmiths in their workshops and cheering. An epic entertainment. Check out the review in Issue 3.

#### Rated 8

#### STELLAR 7

Dynamix, £39.99

Remember the original arcade game Battlezone? Dynamix' interpretation is a bit more colourful, but thankfully the old-fashioned game play has not been thrown out with the old-fashioned presentation. It's just as addictive now as then and well worth a look.

#### LIFE & DEATH II

Software Toolworks, £25.99

Your chance to work in the theatre – the operating theatre that is. Hilarious, messy and harmless, exactly what computer games should be.

#### SIM CITY Infogrames, £29.99

Maxis' mix of town planning, crisis management and downright megalomania has achieved the impossible – to make urban politics fun! Build up your town from a green field site, populate it

with people, give them a transport network and services, and then try to maintain law and order as they take on a life of their own. Definitely not to be missed.

#### SIM EARTH

Ocean, £40.86

Not so much a world manager as a world builder, Maxis followed Sim City with an educational tool based on the Gaia hypothesis and puts the player in charge of every single aspect of a living planet, from the raising and lowering of land masses to the creation and population of the seas. Complex in the extreme, and detailed enough to keep your interest for many months. You need a 286 or above to really appreciate the game.

#### DIRECTORY

Magnetic

Scrolls 081 960 2255 MicroProse 0666 504326 Microsoft 0734 500741 Mindscape 0444 246333 Mirrorsoft c/o Acclaim on 0962 877788 **New World** Computing 021 625 3366 Ocean 061 832 6633 Origin

0444 246333

Paragon 0268 541126 **Psygnosis** Rainbird 0666 504326 Sierra On-Line Software **Toolworks** 0444 246333 SSI 021 625 3366 **US Gold** 021 625 3366 Velocity 021 625 3366 Virgin Games 081 960 2255

# ATTENTION: MANUFACTURERS, DISTRIBUTORS, PUBLISHERS AND RETAILERS

Electronic

Arts

While we aim to make the buyer's guide as comprehensive as possible we need your help to keep our readers informed of all your special offers and promotional deals. If you have any forthcoming promotions or special offers which would be of interest to PC owners, let us know and we'll tell our readers.

#### ATTENTION: READERS

We hope that you've found the buyer's guide useful and entertaining, but we also want to keep improving it to meet your needs. Tell us what you like or dislike, what sections you'd like to see added or changed, and we'll do our best to accommodate the most popular suggestions. Please write to us at:

PC Review, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU. Tel: 071-972 6700.

## **DEALER** DIRECTORY

#### THE COMPUTER STORE

21A Printing Offfice Street Doncaster DN1 1TP Tel: 0302 325260

40 Trinity Street Arcade Leeds LS1 6QN Tel: 0532 429284

13 Westmoreland Street Wakefield WF1 1PN Tel; 0924 290159

14 St Sampsons Square York YO1 2RR Tel: 0904 646934

> 10 Square The Woolshops Halifax HX1 1RU Tel: 0422 369077

4 Market Place Huddersfield HD1 2AN Tel: 0484 514405

> 10 St Peters Way The Eagle Centre Derby DE1 2NR Tel: 0332 202960

34-36 Ivegate Bradford BD1 1SW Tel: 0274 732094

44 Market Street Barnsley S70 1SN Tel: 0226 284124

5 Cole Street Scunthorpe DN15 6RA Tel: 0724 827985

41A Broadwalk The Braodmarsh Centre Nottingham NG1 7LH Tel: 0602 598645

125 Pinstone Street Sheffield S1 2HL Tel: 0742 780083

75 Prospect Street Prospect Centre Hull HU2 8PW Tel: 0482 25536

THE COMPUTER STORE

# SUBSCRIBE TO PC REVIEW



GAME ABSOLUTELY

FREE!

Electronic Arts' software features heavily in the PC Review Top 100. Now you can receive one of those PC Review Top 100 recommended releases absolutely FREE when you subscribe to PC Review!

- Subscribing to PC Review guarantees delivery to your door of the next 12 issues of Europe's essential PC entertainment guide.
- By subscribing to PC Review you can be sure of priority access to the essential reviews, previews, features and news stories each month.
- Over your next 12 issues we'll be working hard to deliver you the very best in playable demos and shareware.
- With our unique editorial mix, you can access our comprehensive reference section and shareware/public domain catalogues.
- Subscribe to PC Review and be confident of receiving the ONLY authoritative guide to PC entertainment and much more.
- For only £34.99 you will receive 12 issues with cover disk on the format of your choice, and your chosen FREE game!

Choose from the following classic Electronic Arts games:

Populous 3.5"/5.25" - CGA, EGA, VGA

PGA Tour Golf
3.5"/5.25" - CGA, EGA, VGA

Chuck Yeager's Air Combat 3.5"/5.25" - CGA, EGA, VGA

Mario Andretti's Racing Challenge 3.5"/5.35" - CGA, EGA, VGA

Battle Chess 3.5"/5.25" - CGA, EGA, VGA, Windows

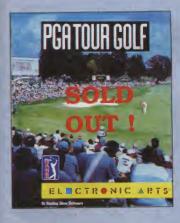
The Bard's Tale 3.5"/5.25" - CGA, EGA, VGA



#### **POPULOUS**

born two nations, fanatical followers of their own beliefs, warriors by nature. Ultimately there can only be one survivor to claim victory over all! Design your own worlds and conquer them! Control the awesome power of nature and experience this classic, biggest selling 16 bit title ever!

Out of the darkness were



#### **PGA TOUR GOLF**

PGA Tour Golf is the only computer game ever licensed by the US PGA. Panoramic fly-by shots and look-back view let you play real tournaments on real courses. Instant replay lets you relive great shots as you compete against 60 PGA pros!

#### CHUCK YEAGER'S AIR COMBAT

Choose from over 50 missions from World War II, Korea and Vietnam as you fly with the leading pioneer of modern air combat, General Chuck

Yeager. Learn from the experience and guidance



from the man who has flown with them all. Will you have the right stuff?

#### MARIO ANDRETTI'S RACING CHALLENGE

Prove your own racing prowess as you work your way up through 6 professional racing circuits. Players face all the heart-stopping race car



challenges in this brilliant professional racing simulation.

#### **BATTLE CHESS**

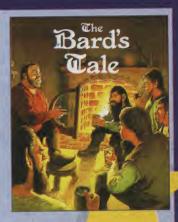
Battle Chess brings chess to life by combining a



magnificent chess logic system with colourful and dramatic 3D animations and digitised sounds. Winner of the Software Publishers Association award for best graphics.

#### THE BARD'S TALE

You are the leader of a ragtag group of freedom fighters in this stunning fantasy role playing game. Combat the evil wizard Mangar and experience animated colour



monsters, 3D full colour mazes and outstanding special effects.

NB: The free software offer is ONLY available to UK Residents

Place your order by completing the coupon (photo-copies acceptable), or send your details on a post card, or ring our special 24 hour orderline service on 0858 410 888 and quote your credit card number. When ordering your subscription, please remember to tell us which size cover disk you prefer - 3.5" or 5.25".

#### SUBS GUARANTEE:

If you aren't completely satisfied with your subscription, you may cancel at any time and receive a prompt refund for all unmailed copies.

Your software choice is mailed separately to your first magazine, please allow 28 days for

#### Offer closes: Monday 6th April 1992

#### SUBS SUMMARY

12 issues (UK Residents) £34.99

12 issues (Rest Of The World) £55.00

Offer is not open to European residents

We suggest that overseas readers pay by International Money Order.

#### ORDER FORM:

Please send to PC Review Subscriptions Department, PO Box 500, Leitester, LE99 0AA (please make all cheques payable to PC Review).

ADDRESS\_

POSTCODE -

I would like a subscription for 12 issues of PC Review, please start my subscription for the issue of PC Review (please enter month)

I would like to receive my cover disk on the following size:

3.5" □

5.25"

(please tick box)

I would like the following FREE game: source code: 0012L □ 3.5" □ 5.25" Populous □ 5.25" source code: 0013Q □ 3.5" Chuck Yeager's Air Combat □ 3.5" □ 5.25" source code: 0014U The Bard's Tale source code: 0015Y Q 5.25" Mario Andretti's Racing Challenge □ 3.5" source code: 0016D □ 3.5" □ 5.25" Battle Chess source code: 0017H Battle Chess (Windows) □ 3.5" □ 5.25" source code: 0018M □ 5.25" 3.5 PGA Tour Golf

I enclose a cheque/postal order (payable to PC Review) for £

\_\_\_\_\_to my Access/Visa/Diners Club/AMEX Please charge £\_\_

Card Number\_\_\_

Expiry Date\_\_

Signature:

Fulfilment: Alan Wells International, Memberline House, Farndon Road, Market Harborough, Leicester, LE16 9NR



Computer

Title

Disc Size:

Mail Order Only

118a Palmers Road (Open 10 am - 6pm 6 days) New Southgate LONDON N11 1SL. Tel: 081-361 6730/2733 (2733 Faxline after 6pm)

PC RUDGET T	ITLES UNDER £10	_		
			uadralien	£4.99
3 Stooges £6.5		£8.99 Ri	ck Dangerous II	£7.99
ADS		£6.99 Ro	ocket Ranger	£7.99
Arac (5.25° only) £4.		£7.99 Sk	cate or Die (5.25° only)	£8.99
Arcade 1 £4.		£4.99 SI	d or Die	£8.99
Arcade 2 £4.	99 Fantasy Pack	£4.99 Sk	cy Chase	£7.99
Arcade Bonanza £4.	99 Ferrari Formula One	£8.99 Sc	pace Battles	£4.99
Archipelagos £4.	99 FM2 Gift Pack	£9.99 Sc	pace Games	£4.99
Armchair Q/back (5.25° only) £4.	99 F.O.F.T	£7.99 Sc	peedball (5.25° only)	
Austerlitz £6.			orts Spectacular	
Backgammon £4.5	99 GFL Football		arflight	
Ballistix £7.		£4.99 St	ar Glider II	£7.99
Bards Tale III £8.	99 Hitch Hikers Guide		argoose	
Battle Chess £8.	99 Hotshot		armovik	
Blackjack £4.5	99 Imperium		array	
Bloodwych £7.5	99 International Karate	£4.99 St	ralegy Games	£4.99
Boulderdash £4.5	99 King of Chicago		rikefleet	\$8.99
Boulderdash 2 £4.5			rike Force	
B.dash Con.Kit £4.5			γχ	
Brix 2 (5.25° only) £4.5			paplex	
Budokan £8.5		£4.99 Th	e Kristal	£9.99
Cave Ugh-Lympics £8.5			nunderstrike	28.99
Centurion £8.5	99 Moonshine Racers (5.25° only):		ournament Golf (5.25° only)	
Chuck Yeagers 2.0 £8.5			intes (3.5° only)	
Club Casino FA!	99 Passing Shot	17.99 TV	Sports Football	\$7.99
Colossus Chess (5.25° only) £6.9	9 Populas	EB.99 UI	timate Golf	69.99
Daily Double(5.25" only) £6.9			aterioo	
Def. of the Crown £7.5			ork I, II or III	£7.99
	TITLES 3.5" 5.25"		P TITLES 3.5°	5.25
£20.99 £20.99 Micropro	se Golf £32.99 £32.99	Shangh	nai II £23.99	£23.99

20 700 717 70	20 200 217 20							
PC TOP TITLES 3.5 5.25 3D Construction Kil £33.99 £33.99	PC TOP TITLES 3.5 5.25 Cybercon III	PC TOP TITLES	3.5 ° 5.25 ° £20.99 £20.99	PC TOP TITLES	3.5" 5.25"		3.5	5.25
3D Pool£7.99 £6.99	Daggers of Amon Ra £27.99 £27.99 Darklands £32.99 £32.99	Hard Drivin II	£20.99 £20.99	Microprose Golf	. £24.99 £24.99	Shanghai II	£23.99 £20.99	£23.99
4D Sports Boxing	Darklands £32,99 £32,99 Darkseed £27,99 £27,99	Harpoon with Battleset II		Michaelor II	63200 63200	Shuttle the Sim	£24.99	£24.99
4D Sports Tennis £20.99 £20.99	Daemons' Gate £26.99 £26.99	Harpoon Battleset III S Harpoon Battleset IV S	£11.99 £11.99	Mig 29M Super Fulcrum Might and Magic III Monkey Island Monkey Island II Never Mind	. £26.99 £26.99 . £26.99 £26.99	Silent Service II	£22.99	£24.99
688 Attack Sub £20.99 £20.99	Das Boot	Harpoon Scenario Editor &	£13.99 £13.99	Monkey Island	. £20.99 £20.99	Sim Earth	£26.99	£26.99
Abrams Battle Tanks N/A £20.99 Aces of the Pacific £26.99 £26.99	Deluxe Paint II Enhanced £85.99 £85.99 D/Generation	Heart of China	£26.99 £26.99 £23.99 £23.99	Monkey Island II	. £23.99 £23.99 £7.99 £7.99	Skilled Builders	£22.99	£22.99
Addams Family £21.99 £21.99	Disc Vision£59.99 £59.99	Hero's Quest	£20.99 £20.99	NOCA Daskerball	. 120.99 120.99	Slide View Module	£12.99	£12.99
Airborne Ranger	Disney Animation studio £74.99 £74.99 Double Dragon III £20.99 £20.99	Heroes of the 357th S		Nova 9	£27.99 £27.99	Smash TV Sorcerers get all the Girts Space 1889	£22.99	£22.99
American Indoor Football £16.99 £16.99	Dragons Lair II	Hong Kong Mahjond	E21.99 E21.99	Othitus	£22.99 £22.99 £26.99 £26.99	Sorcerers get all the Gins	£21.99	£21.99
Another World	Dragon Wars	Hyperspeed	£32.99 £32.99	Ork	. £23.99 £23.99	Space Ace II	120.99	£26.99
Are We There Yet	Dreadnoughts	I.Botham Cricket	£21.99 £21.99 £20.99 £20.99	Pacific Island (T. Yankee II	1) £2 <b>3.99</b> £23.99 . £ <b>63</b> .99 £63.99	Space Quest IV	£26.99	£26.99
Amourgeddon £23.99 £23.99	Dune£23.99 £23.99	Indy 500 §	£20.99 £20.99	Page Garden	. £16.99 £16.99	Space Wrecked	£15.99	£15.99
A.T.A.C £27.99 £27.99	Dungeon Master £23.99 £23.99	Infestation	£7.99 £7.99	Patton Strikes Back	. £26.99 £26.99	Spot	£20.99	£22.96
Atlas Pack	Dvorak on Typing	Jaguar XJ220 §	£26.99 £26.99 £24.99 £24.99	Perfect General Personal Assistant	£23.99 £23.99 £169.99 £169.99	Starfighter II	\$26.99	£26.99
A.T.P £23.99 £23.99	Eco Quest £27.99 £27.99	Jetfighter II §	£26.99 £26.99	PGA Golf Tour + PGA Golf Tournament Dis	£23.99 £23.99	Star Trek V	£20.99	£20.99
B17 Flying Fortress £32.99 £32.99 Baal	Elite	J Nicklaus Signature ed (HD): Kara Fonts	£26.99 £26.99 £33.99 £33.99			Star Trek 25th Anniversary	£24.99	£24.99
Back Up Pro	Etemum £23.99 £23.99	Keys of Maramon	N/A £20.99	PGA Windows PGA Windows Courses	. £27.99 £27.99 . £13.99 £13.99	Steel EmpireStorm Master	£23.99 £20.99	£23.99
Bad Blood £12.99 £12.99	Elf £21.99 £21.99	Kid Pix &	£23.99 £23.99	Pirates	. £17.99 £17.99	Strike II	£20.99	£20.99
Bards Tale Construction Set£20.99 £20.99 Battle Chess II£20.99 £20.99	Elvira II Jaws of Cereberus £26.99 £26.99 Elvira the Arcade	Kid Pix Companion & Kings Quest IV	£16.99 £16.99 £23.99 £23.99	Pitfighter	. £20.99 £20.99	Super Space Invaders	£16.99	£16.99
Battle Chess Windows £23.99 £23.99	Epic	Kings Quest V VGA/FGA 9	£27 99 £27 99	Plan 9 from Outer Space . Planets Edge	. £26.99 £26.99 . £27.99 £27.99	Super Tetris Team Suzuki	£20.99	£24.99
Battle Command £23.99 £23.99	Eye of the Beholder £20.99 £20.99	Knights of the Sky	£27.99 £7.99	Police Quest III	. £26.99 £26.99	Team Yankee	£20.99	£20.99
Battle Isle	Eye of the Beholder II £24.99 £24.99 F15 Strike Eagle II £24.99 £24.99	Laffer Utilities £	£20.99 £20.99 £27.99 £27.99	Police Quest IV Pools of Darkness	N/A £26.99	Tennis Cup II	£21.99	£21.99
Beyond the Black Hole £20.99 £20.99	F15 Desert Storm Scenario £12.99 £12.99	L'Emperor Napoleon §	£27.99 £27.99	Print rite	£59.99 £59.99	Terminator II	£22.99	£23.99
Bill Elliots Nascar Challenge£23.99 £23.99	F16 Combat Pilot £11.99 £11.99	Legend £	£20.99 £20.99	Print Shop Deluxe	. £39.99 £39.99	Test Drive III	£20.99	£20.99
Birds of Prey	F117A Stealth Fighter 2.0 £27.99 £27.99 F19 Stealth Fighter £27.99 £27.99	Leisuresuit Larry V V/EGA & Lemmings £	£27.99 £2799 £22.99 £22.99	Pro TennisTour II	. £23.99 £23.99 . £23.99 £23.99	Tetris Their Finest Hour	£18.99	£18.99 £26.99
Blue Max	F29 Retaliator£22.99 £22.99	Lemmings - Data Disc &	£15.99 £15.99	Race Drivin'	£20.99 £20.99	Thunderhawk AH-73M	£23.99	£23.99
Breach II	Falcon 3.0	Lemmings - Stand Alone &		Railroad Tycoon	. £24.99 £24.99	Time Quest	£24.99	£24.99
Cadaver	Fiendish Freddy £23.99 £23.99	LHX Attack Chopper £	£20.99 £20.99 £26.99 £26.99	Reach for the Skies Red Baron	. £20.99 £20.99 . £26.99 £26.99	Titus The Fox Tool Works Office Manager	£16.99	£16.99 £39.99
Carl Lewis Challenge £24.99 £24.99	Flight for Victory£26.99 £26.99	Life & Death &	£16.99 £16.99	Red Baron II	. £26.99 £26.99	Toyota Celica GT4 Rally	£20.99	£20.99
Carrier Command	Flight Simulator IV	Life & Death II &	£20.99 £20.99 £26.99 £26.99	Red Storm Rising	. £24.99 £24.99	Tracon III	£33.99	£33.99
Cartooners N/A £17.99	Form Filler	Lord of the Rings £	£23.99 £23.99	Rise of the Dragon	. £27.99 £27.99 . £20.99 £20.99	Treasures Savage Frontier Turtles II	\$20.99	£20.99
Casino	Form Tool Gold v 3.0	Lord of the Rings II £	£23.99 £23.99	Robin Hood	£20.99 £20.99	TV Soorts Baseball	£22.99	£22.99
Castle of Dr Brain	Fun School 3 (under 5) £16.99 £16.99 Fun School 3 (5 - 7) £16.99 £16.99	M1 Tank Platoon £ M. Ditka Ultimate Football £	£27.99 £27.99 £23.99 £23.99	Robin Hood Longbow Robocop III	N/A £19.99 . £22.99 £22.99	Twilight 2000 Ultima Martian Dreams	£23.99	£23.99
Championship Manager £20.99 £20.99	Fun School 3 (7+) £16.99 £16.99 Fun School 4 (under 5) £16.99	Mad TV £	£17.99 £17.99	Rocketeer	. £20.99 £20.99	Ultima Underworld	\$26.99	£26.99
Chess Champion 2175 £20.99 £20.99 Chessmaster 2000 £16.99 £16.99	Fun School 4 (under 5) £16.99 £16.99	Magic Candle II £	£23.99 £23.99	R. Rabbit +Sound Source	£34.99 £34.99	Ultima V	£32.99	£32.99
Chessmaster 2100 £15.99 £15.99	Fun School 4 (5 - 7) £16.99 £16.99 Fun School 4 (7+) £16.99 £16.99	Mario Andretti £ Martian Memo (VGA only) £	£20.99 £20.99 £23.99 £23.99	Rollerbabes		Ulfima VI	£23.99	£23.99 £26.99
Chessmaster 3000 £23.99 £23.99	Games Winter Challenge   £23.99 £23.99	Mavis Beacon Typing II &	£23.99 £23.99	Rules of Engagement	£23.99 £23.99	Ultima VII( HD)	£27.99	£27.99
Chuck Yeager's Air Combat £23.99 £23.99 Cisco Heat	Global Effect £26.99 £26.99 Goblins VGA £21.99 £21.99	Mega Fortress £	£15.99 N/A	Rules of Engagement Samurai - Way of Warnor	£27.99 £27.99	UMS II Planet Editor	£17.99	£17.99
Civilization	Goblins VGA £21.99 £21.99 Gods £23.99 £23.99	Mega Maths (A level) £ Megatraveller I £	£16.99 £16.99 £23.99 £23.99	Sands of Fire	£20.99 £20.99 £13.99 £13.99	Willy Beamish Wing Commander II	£26.99	£26.99 £26.99
College League Module £12.99 N/A	Golden Axe£20.99 £20.99	Megatraveller II £	£23.99 £23.99	Sargon V	£24.99 £24.99	Wing Commander Deluxe	£32.99	£32.99
Command HQ	Golden Eagle £23.99 £23.99 Go Simulator £16.99 £16.99	Menace	£7.99 £7.99	Savane Empire	£23 99 £23 99	Winter Super Sports '92	£16.99	£16.99
Corporate Ladder £59.99 £59.99	Grand Prix	Mickey's Crossword £ Mickey's 123 £	16.99 £16.99 16.99 £16.99	Secret Missions 2	£12.99 £12.99 £26.99 £26.99	Wizkid	£21,99	£21.99 £79.99
Cover Girl Poker £20.99 £20.99	Grandslam Bridge	Mickey's ABC £	£16.99 £16.99	Seige	. £20.99 £20.99	World Tennis Championship	p£26.99	£26.99
Covert Action	Gunship £24.99 £24.99 Gunship 2000 £27.99 £27.99	Mickey's Colors & Shapes &		Sentinel		Wrath of the Demons	£23.99	£23.99
Cruise for a Corpse £22.99 £22.99	Hardball III (HD) £23.99 £23.99	Mickey's Jigsaw Puzzles £ Mickey's Memory Challenge£	16.99 £16.99 16.99 £16.99	Shadowlands	. £20.99 £20.99 . £23.99 £23.99	W.W.F. Wrestlemania Xenon II	£22.99 €7.00	£22.99 £6.99
CHECK AND OF ORM - 1. COM ON								
QUEST AND GLORY only £23.99 Cadaver, Bloodwych, Midwinter, BAT	PHANTASIE BONUS EDITION only £20.99 Phantasie, Phantasie III, Questron II	00 110111		BARDS TALE TRILO		ULTIMA TRILOGY 5.25		0.99
Coordi, Goodhyon, Mominor, Dan	Financiase, Financiase III, Questi Ol II	Command HQ		Bards Tale I, I	i ano iii	Ultima I, II and	1111	
FAST LANE only £23.95	POWER PACK only £18.99	Falcon 3.0		SUPER CAR PACK	only £23.99	CHALLENGERS or	nly £13.99	9
Hard Driving, F.Formula I, Vette, Highway	Def of the Crown, Lombard RAC Rally, TV	Gunship/Midwinter	£36.99	Exotic Car Showroom, Fer	rrari Formula One,			
Patrol, Stunt Car Racer	Sports Football, Xenon II	Kings Quest V Leisure Suit Larry V	£27.99	Grand Prix C	Sircuit	Pro Tennis Tour, Kick (	Off, Super	rski
SOCCER STARS only £16.99	AIR SEA SUPREMACY only £23.99	M1 Tank Platoon	£27.99	TOP LEAGUE or	A, \$22.00	MOVIE ODENIED	L 522 00	
Kick Off II, Microprose Soccer, World	Gunship, Silent Service, P47, F15 Strike	Railroad Tycoon	£27.99	Falcon, Midwinter, Rick		MOVIE PREMIER or Turties, Days of Thunder		
Championship Soccer	Eagle, Carrier Command	Red Storm/Carrier Command S101		Sports Foot		Back to the Futu		Э п,
		S. Holmes Consulting Detection	ve £44.99					
ACTION MASTERS criy£21.99 F16 Combat Pilot, Italy 1990, Double	CHAMPIONS only £14.99  J.Khan Squash, Man United, World	Space Senes Apollo	£74.99	MOVEICSCROLLSC		AIR, LAND, SEA on		
Dragon II, Turbo Outrun, Welltris	Championship Boxing Manager	Stellar 7	£32.99	only £23 Corporation, Fish, Gu		688 Attack Sub, Indy 500, Fighter SVI-2		nack
Diagonii, renoo ocean, reams	Granporoup Soung manager	Time Quest	£24.99	Corporation, risil, Go	ind of Thieves	Fighter SVI-2	5	
FULL BLAST	MICROPROSE PACK	Ultima Series 1-6	£52.99	PC GAMES COL	LECTION	ACCOLADE ALL TIME F	AVOUR	ITES
5.25° only £23.99	CD-ROM only £36.99	Voyager	£79.99	only £26.9		only £19.99		
Carrier Command, Rick Dangerous,	3D Pool, Rick Dangerous,	Wing Commander W.Commander + Sec.Mission	ns 1 & 2£35.99	Castle Master, Hard D	riving II, Trivial	Test Drive, HardBall!,		it,
Ferrari Formula 1, Chicago 90	Microprose Soccer, Savage	W.Com./Ultima VI Deluxe Pa	ack £35.99	Pursuit, Mig 29 Fulcrur		Apollo 18		
Highway Patrol, P47 (CGA only)		PHONE FOR COMPLETE		Planet of Robot I	Monsters			
	payable to Eagle PC. P&P is £1.0			Name:				
under £10 please add 50p per item.	Europe: add £3.50 per item. Elsew	here add £4.50 per item.	. New					
	are subject to manufacturers price			Address:				-
The second secon	Joseph Marian Grand Di 100 I	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL						

Date

**Price** 

**Price** 

Price Price

P&P

Total

Postcode:

Card No:

**Exp Date** 

Access 🗌

Tel:

Free Membership with First Order

Visa 🗍

Member No:

Cheque 🗀

P.0's



# Buyers' guide

ecause all of us here at *PC Review* are PC users as well as reviewers we're perfectly placed to know that shopping for your PC can be a veritable nightmare, even if you're looking for something as simple as a joystick. The PC's open architecture has meant that expanding the machine is a fairly simple operation, but it's also meant that, during its 10 years of existence, the machine has attracted an enormous number of manufacturers of both hardware and software. The choice facing the potential buyer is vast and continually growing.

That's why we've set aside more than 10 pages in each issue to guide you through the quagmire of hardware and software. Within this section you'll find up to date information on the very best hardware and software available. Not only will we tell you what you can buy, but where you can buy it from and how much it will dent your pocket.

We don't claim that the guide in a single issue is exhaustive, but over the course of a few months you'll find it builds up into an invaluable reference work for PC buyers.

Happy browsing!

#### HOW TO USE THIS GUIDE

We've divided the guide into four easy to use sections: Hardware lists add-ons and upgrades that will improve your PC's performance or add features not available on the basic model; Software gives you a run-down of a wide-range of productivity software and utility programs; Ancillary is for those of you who want to invest in a new machine or simply keep your existing machine in tip-top condition.

Within each section you'll find that we've listed the basic capabilities of each product as well as any major plus or minus points. If you're a little confused by Technospeak (and aren't we all from time to time) just turn to our *Technical Terms* panels for a simple explanation.

All of the prices given are inclusive of VAT at 17.5%, although where there is no recommended retail price for a particular product we've listed the average price, thus: c£550. Please bear in mind that these prices do not include postage and packaging, courier charges, etc.

If you require further details on a product then simply look up the supplier in our directory where you'll find an appropriate telephone number and address.

What could be simpler?

H	Δ	R	n	W	Δ	R	F
		$\mathbf{L}_{\mathbf{Z}}$	L/	TT.	43	1	

ANCILLARY

Memory Upgrades	.112
Hard Cards	
Hard Disk Drives	.112
Graphics Cards	.113
ADD-ONS	
Soundboards	113
Joysticks	
Mice and Trackballs	
Modems	
Dot Matrix Printers Under £300	
Ink Jet Printers	
Laser Printers	.115
External Disk Drives	
CD ROM Drives	
Hand Scanners	
Digitisers	
SOFTWARE	
Graphics	
Desktop Publishing	
Communications	
Composing Software	117
Anti-Viral Toolkits	117
Miscellaneous Utilities/Productivity Software	

We have done everything humanly possible to check the information in this guide. But prices do change, distribution switches from one company to another, even brand names can be updated. While we will update the information regularly to take account of this, we can't be held responsible for any errors contained berein.

Portable Computers ......118

Maintenance and Repair.....119

DIRECTORY......119

Anyone – suppliers, publishers, readers – who knows of products suitable for inclusion but which have mysteriously been omitted can write in with details (write, please, don't phone) to the address at the front of the magazine.

# **DEALER**DIRECTORY

OHM ELECTRONICS LTD 515 PINNER ROAD NORTH HARROW MIDDX HA2 6EH Tel: 081-427-0545 Fax: 081-863-7930

AMSTRAD COMMODORE
OLIVETTI ALSO PC'S BUILT TO
YOUR SPECIFICATIONS. PC
GAMES ACCESSORIES WE ALSO
REPAIR AND UPGRADE PCS

#### COMPUTER ADVENTURE WORLD

STRATEGY, RPG, SIMULATION SPECIALISTS

BANK BUILDINGS CHARING CROSS, BIRKENHEAD 051-666-1132 318 KENSINGTON, LIVERPOOL 051-263-6306

AR COMPUTERS
2 GLASS STREET
HANLEY
STOKE - ON TRENT
STAFFS
ST1 2EJ
TEL: 0785 222551

150 NEWPORT ROAD STAFFORD ST16 2EZ

# CRAWLEY COMPUTERS (CROWBOROUGH) LTD

1 THE PARADE, ERIDGE ROAD, CROWBOROUGH, EAST SUSSEX TN6 2SH

TEL: 0892 667122



#### **MEMORY UPGRADES**

Most PCs will take extra memory chips, either on a slot-in card, or directly onto the motherboard – and just as well, given the latest crop of memory hungry games. The minimum RAM acceptable these days is 640K; some older PCs (such as the Amstrad PC1512) were sold with 512K. However, an increasing

number of games make use of extended or expanded memory above 640K, and you'll need a good 2Mb should you ever want to run Windows. The prices quoted here are for a selection of IBM and Amstrad machines. Prices for other clones may vary.

Size/Type	Price	Comments	Supplier
1Mb/Card	£94	For IBM XT	Memory Direct
2Mb/Card	£146.88	For IBM XT	Memory Direct
2Mb/Card	£164.50	For IBM AT	Memory Direct
2Mb/Card	£246.75	For IBM AT (LIM 4)	Memory Direct
4Mb/Card	£339.57	For IBM AT (LIM 4)	Memory Direct
640K/Chip Set	£29.95	For Amstrad PC1512	Evesham Micros
4Mb/Chip Set	£160	For Amstrad PC2286	Evesham Micros
16Mb/Chip Set	£815.45	For Amstrad PC2386	Memory Direct

#### **TECHNICAL TERMS**

The original XTs and ATs could only directly address a maximum of 640K of RAM, but there are two methods of extending the available RAM on these machines. The first is known as **Extended Memory** (memory located above the first megabyte which can be directly addressed by the 80286 and its successors), while the alternative is **Lotus Intel Microsoft Expanded memory Specification (LIM EMS)**, named after the three companies that developed it. **LIM 4** is the latest version of this, designed to work with DOS version 4.0 and beyond. Most software that uses extended or expanded memory is configured to work with only one of these systems, so you should check which of them your applications support before you make a buying decision.

#### HARD CARDS

No room for a hard disk drive? Want a simple plug in, cheaper solution? Hard cards fit into a free expansion slot and can be used as a conventional hard drive.

•The XL versions of Time's Smartcards are supplied without driving software. If you wish to buy the version with the software please add £47 to the listed price.

Model	Туре	Capacity	Speed	Width	Price	Supplier
Smartcard 30XL	XT/AT	32Mb	24ms	1 Slot	£205.62	Time
32MbXT	XT	32Mb	40ms	1.5 Slots	£186.83	RSC
Smartcard 40XL	XT/AT	40Mb	24ms	1 Slot	£229.13	Time
45MbXT	XT	45Mb	19ms	1 Slot	£233.83	RSC
45MbAT	AT	45Mb	19ms	1 Slot	£233.83	RSC
Smartcard 100XL	XT	100Mb	19ms	1 Slot	£417.13	Time
Smartcard 100XL	AT	100Mb	19ms	1 Slot	£534.63	Time

#### TECHNICAL TERMS

Cards which occupy **1.5 slots** will prevent you from plugging a full length card into the adjacent expansion slot, so check the arrangements of existing cards in your PC and plan carefully if you intend to utilise any unoccupied slots in the future. The **speed** of a card is an indication of its average **seek time** (the time it takes for the read/write heads to reach the appropriate location on the disk).

•RSC's cards are supplied with a free copy of Norton Utilities v.5 (RRP £139)

#### HARD DISKS

Model	Interface	Capacity	Speed	Size	Price	Supplier
Seagate ST325N	SCSI	32Mb	28ms	3.5" 1" high	£205.63	Dataplex
Seagate ST351A/X	AT/XT	42Mb	28ms	3.5" 1" high	£193.88	Dataplex
Seagate ST125A	IDE	21Mb	28ms	3.5" half height	£170.38	Corporate Upgrades Ltd
Seagate ST157A	IDE	44Mb	28ms	3.5" half height	£163.33	Corporate Upgrades Ltd
Seagate ST225	MFM	21Mb	65ms	5.25" half height		Dataplex
Conner CP3024	IDE	21Mb	27ms	3.5" 1" high	£176.25	Unimart Computers Ltd
Conner CP3044	IDE	42Mb	25ms	3.5" 1" high	£217.38	Unimart Computers Ltd

#### TECHNICAL TERMS

You can only fit an internal hard drive if you have a suitably sized spare drive port in your machine. If you are at all unsure you should first check with the supplier of your machine which size of hard drive you will be able to fit. There are a number of different hard drive interfaces in use so make sure that you buy the appropriate drive.

# S OUNDBLASTER

#### SoundBlaster Pro FEATURES

- \* CD-ROM Interface
- \* Digital & Analog Mixer
- \* 22-Voice FM Music (Ad-Lib Compatible)
  - \* Digitised Voice Output (DMA)
  - \* Digitised Voice Input (DMA)
    - \* MIDI Interface included
  - \* Microphone Amplifier & Jack
  - \* Power Amplifier \* Volume Control
    - \* Bundled Software
    - \* And much, much more!





# SOUND BLASTER Pro SOUND BLASTER



#### SOUNDBLASTER v2 £97

SOUNDBLASTER Pro £169

CD ROM & Multimedia Kit £349.

Also with Midi Kit/Sequencer

& Selection of Disks, £449

SoundBlasterv2 is the best choice in stereo sound cards for the PC. With 11 FM sounds, built-in sampling from 4KHz to 23KHz, built-in MIDI interface, various bundled software; text-to-speech synthesis, josystick port, microphone amplifier & jack, and Ad-Lib compatibility ensure that the SoundBlaster card gives you a high specification sound card at an affordable price.

The SoundBlaster Pro includes all the features of the original SoundBlaster and more! The Pro has 22 FM sounds, 4KHz to 44KHz sampling rate, CD-ROM interface, MIDI interface & cables as standard and Stereo mixer & Sequencer software to give you complete control of your music and graphic presentations. The SoundBlaster Pro is the ultimate sound card for your PC.

West Point Creative have now released a complete Multimedia upgrade kit for the PC. Comprising of the stunning SoundBlaster Pro card, a high performance internal CD ROM drive, MS Windows + Multimedia extensions and a host of bundled software. The CD ROM has a 64K cache buffer and 150K per second data transfer rate. Also available is a further upgrade witch includes a MIDI Kit, SB Pro sequencer and the disks - Creative Sounds, Microsoft Bookshelf, Select Ware Systems demos, and 'Jones in the Fast Lane' game. Complies with the Multimedia PC standards, giving full multimedia compatability.



TechnoLOG Digital Systems Limited, 59 Friar Lane, Leicester LE1 5RB Tel: 0533 510610 Fax: 0533 514280



All prices exclude VAT & Delivery. Prices and specifications subject to change without notice. All trademarks acknowleded. Open Mon-Sat 9am-6pm If you're using a PC which has only floppy disk drives, then a hard drive could change your life. With capacities ranging from 20Mb to well over 100Mb (more in business heavyweight machines), you can store all your programs, all your data, on the one drive, and still access it far more quickly than on floppy. No more disk-swapping every five minutes, no more booting DOS from floppy every time you switch on. Also, more and more games these days actually require you to install them on a hard disk.

#### **GRAPHICS CARDS**

The PC has had a long and chequered history of different graphics standards, thanks to IBM's decision not to include graphics at all in the original machine. The current best standard now for games is VGA (Video Graphics Array): with a maximum of 256 colours on-screen, this really shows off the potential of PC games.

Туре	RAM	Size	Resolution	Colours	Price	Supplier
Hercules	64 Kb	8-Bit	640x350	2	£28.20	Watford Electronics
CGA	64Kb	8 bit	320x200	4	£37.60	Watford Electronics
EGA	256Kb	8-Bit	640x350	16	£76.38	Watford Electronics
VGA	512K	16 bit	1024x768	256	£92.83	Dataplex
SVGA	1Mb	16 bit	1024x768	256	£92.83	DS Computers
SVGA	1Mb	16 bit	1024x768	256	£92.83	DS Computers

• Watford Electronics graphics cards are all supplied with a built-in parallel printer port.

#### SOUNDBOARDS

Until recently, the best the PC could produce in the way of sound was 'beep'. But the advent of soundboards has changed things dramatically. A soundboard will take up a single expansion slot and produce genuine music and background sound effects in the games which support it – which is an ever-increasing number these days. Below are the 'standard' soundboards catered for by most titles.

Name	Supplier	Price
AdLib	Mindscape	£89.99
0 1 1 1	1 1 1 1 1 1 1 1 1 1 1	

**Comment** Currently the most popular system, and a good trade-off between price and performance.

LAPC-1 Roland £379.00

Comment Superb sound quality probably priced out of the reach of many games players. No

**Comment** Superb sound quality probably priced out of the reach of many games players. Non AdLib-compatible.

SoundBlaster v2.0 WestPoint Creative £139

Comment AdLib-compatible and capable of producing sampled sounds. Try it with Wing

Commander 2 to hear what we mean!

SoundBlaster Pro WestPoint Creative £249.95 **Comment** Has all the features of soundblaster, but is compatible with many CD ROM games.



#### **JOYSTICKS**

No provision is made in the design of the standard PC to plug a joystick in directly. You'll need a joystick card in one of your expansion slots which allows an analogue joystick to be plugged in. A number of manufacturers sell both cards and joysticks together. For flight sims and racing games,

yoke and pedal style controllers are also available.

- •The Tecniche stick is available without games card for £17.61
- •The Analog sticks are both available without games cards for £12 and £15 lower than the marked prices respectively.

Price	Supplier	Comments
£19.95	ABS Computer Supplies	Auto-fire option
£19.95	Computer Mates Ltd	Includes games card
£63.45	Power Mark	Self-adjusting PS/2 Twin Port
£57.58	Power Mark	Self-centring Yoke
£48.18	Power Mark	8 Tension adjusters!
£23.49	RSC Ltd	Includes games card
£29.99	Evesham Micros	Includes games card
£39.99	Evesham Micros	Includes games card
£89.95	RC Simulations	Includes games card
	£19.95 £19.95 £63.45 £57.58 £48.18 £23.49 £29.99 £39.99	£19.95 ABS Computer Supplies £19.95 Computer Mates Ltd £63.45 Power Mark £57.58 Power Mark £48.18 Power Mark £23.49 RSC Ltd £29.99 Evesham Micros £39.99 Evesham Micros

#### MICE AND TRACKBALLS

Many games are tailored to be easily controllable with a mouse, which is much more of a standard PC add-on than a joystick. Then again, there is the trackball, which in effect is an upside-down mouse, with you moving the ball directly to control on-screen movement – useful if your desk space is limited or you're using it with a portable machine.

Product	Price	Supplier	Comments
Genius GM6000	£28.95	ABS Computer Supplies	Includes pocket, pad and software
Genius GMF302	£37.95	ABS Computer Supplies	As above, higher resolution

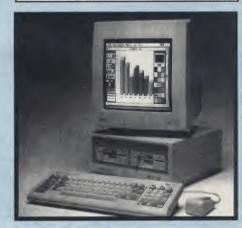
# **DEALER**DIRECTORY

#### SPA COMPUTER CENTRE

68 CLARENDEN STREET LEAMINGTON SPA WARKS CV32 4PE

TEL: 0926 425985

Home and business computers. hardware software peripherals disks stationery Spares repairs service.



# CRAWLEY

54 THE BOULEVARD
CRAWLEY
SUSSEX

TEL: 0293 561656

#### **TOWN COMPUTERS**

30 Town Road Hanley Stoke On Trent ST1 2JQ

Tel: 0782 287540

rom the numerous shareware and public domain games and leisure programs available we ve selected and tested the finest and compressed them into six collections updated regularly

GAMES COMPENDIUM 1 (100 of the best PC games)

itles include: Dark ages, Commander Keen, EGA Bomb, Capt Comic, Joust, Americas Cup, haroah's Tomb, Battleship, EGA Poker, Global Warfare, Gravwars, Dominoes, VGA Pinball, 3DTetris, Seahunt, Snarf, Banaoid, Eatit, Breakout, Bloxter, 3D Chess, VGA Roulette, VGA ner, EGA Solitaire, ....dozens more adventure, arcade, board, card, word and strategy games

**GAMES COMPENDIUM 2 (Another 100 quality games)** Titles include: Wizards Lair, Hurkle, Kursk, 3D Startrek, Condo, Bass Tour, Tron, Golden

Wombat, Monuments of Mars, PC Railroad, Sorry, Frigate, Antix, EGA Casino Games, Dungeons of Doom, Shooting Gallery, Viking, Ninja...and many, many more!

GAMES COMPENDIUM 3 (Yet another 100 great games)

Arctic Adventure, Duke Nukem, Aliens Laughed, Moraff's World/Pinball / Superblast, Popcorn, (roz II. Dracula in London, Groundwar, Picture Puzzle, lots of joke programs...and much more!

**WINDOWS SHAREWARE 1** (Over 100 general programs) cludes Aporia, Almanac, Active Life, Command Post, Icon Draw, Icon Tamer, Icon View, all nine Vetz utilities, Bigdesk, Back Menu, Winzip, Whiskers, Navigator, Organise, Paintshop, Snagit, inpost, Winedit, Dozens of utility programs, over 340 icons, Windows fonts, bitmaps, picture file conversion utilities. Contains over 10mb of Windows programs when unarchived!

**WINDOWS SHAREWARE 2** (Over 115 games programs)

Itles include: Atmoids, Backgammon, Chaos, Checkers, Fractal Paint, Fireworks, Islands, Klotz, Lunar Lander, Magic, Mines, Pente, Pool, Screenpeace, Spacewalls, Sage, Space War, Tile Puzzle, Pipe Dreams, Taipei, Winfract, Winchess, Winjack, Winpoker, ...and many, many more.

#### **NEW: GAMES FOR CGA DISPLAYS ONLY**

Over 115 of the best CGA games selected from compendiums 1,2 & 3

Each set comes on 12 5.25" or 6 3.5" disks and has its own fully descriptive 6 page leaflet. PRICES: Buy one set for £12, 2 sets for £22, 3 or more sets for £10 each.

Please send me the shareware sets ticked below. add £1 P&P per order.

☐ I enclose a cheque/PO for £ \_\_\_\_\_ ☐ Please debit my credit card, attach

☐ Games 2

number, expiry date & signature ☐ Games 3 Disk Size Required

☐ CGA Games ☐ Windows 1 ☐ Windows 2

□ 3.5" □ 5.25"

SHAREWARE CONNECTIONS . Tel (041) 7751937

49 BOGHEAD ROAD, KIRKINTILLOCH, GLASGOW. G66 4ED 🔼

# Strategic Plus Software

Phone 081 977 8088 Fax 081 977 4822 Mail Order and Overseas orders welcome.

> 28 D&E The Courtyard, High Street. Hampton HIII, Middx. TW12 1PD.

VISIT our SHOP or send £2.50 for Our New 8th Edition CATALOGUE.

All The Latest Releases Available Fast And Friendly Service. Mail Order is our Speciality.

## DREADNOUGHTS

From Peter Turcan

Dreadnoughts...(Game)..... 

## HARPOON Special

£179.95

Dlus Battlesets 1&2 IBM £35.99 

Scenario Editor.....

New Harpoon Designers Battleset Due Soon Call



#### SALES ACTION LINES

South : 081-893-3630 North : 0506-636500



PC ACTION SOUTH O CONSTANCE ROAD WHITTON TWICKENHAM TW2 7JA.

PC ACTION NORTH 32 KIRK ROAD BATHGATE WEST LOTHIAN **EH48 1BW** 

£39.95 £19.95 £49.95 £69.95 £49.95

Software



# UPGRA £459.00 Including

CD-ROM DRIVE Access Time 390ms ansfer Rate 150 KB/sc 64K Buffer

SOUNDBLASTER PRO

WINDOWS 3.1 BUNDLED CD TITLES

Microsoft Bookshelf

Sherlock Holmes Consulting Detective Disk Of Disks

SOUNDBLASTER V.2.0 £104.95

SOUNDBLASTER PRO 2 NEW! SOUNDBLASTER MCV PRO CARD £199.95

**NEW! VIDEO BLASTER** 

The Multimedia Video Interface For Your PC £379.00



#### Soundblaster Accessories

J306 Mains Speakers C/MS Chips Option Midi Adaptor 1/1 with Voyetra SpPro Midi Adaptor 1/5 with Voyetra SpJr Voice Editor Software Software Developers Kit (Dos & windows)

#### Advanced Digiplayer All prices include VAT and Postage No hidden extras !!

Extensive range of PC Entertainment titles in stock and full range of Soundblaster accesories - please phone for full price list

Ultima 7 Dune Epic Flight Simulator 4 F.S.4 Upgrade Shuttle Falcon 3 Jack Nicklaus Golf Signature Edition A.T.P. Heimdall Super Tetris PGA Tour Golf	£29.95 £24.95 £24.95 £39.95 £39.95 £39.95 £29.95 £29.95 £24.95 £24.95
CD-Rom Game Titles Full List Of Over 200 CD Titles Stellar 7 Sherlock Holmes Consulting Detective Composer Quest MPC Battlechess Kings Quest V	£39.95 £49.95 £69.00 £49.95 £39.95
CH Products Joysticks & Gamecards Mach I Mach I Plus Mach III Mach III Flightstick Gamecard Automatic - 50Mhz Gamecard Automatic - 33Mhz MCA	£14.95 £17.95 £21.95 £25.95 £34.95 £29.95 £34.95
Music Software Tetra Compositor SongWright Symphony No. 5 Midisoft Studio For Windows	£59.95 £99.95 £179.95

#### BUYERS' GUIDE

# **DEALER**DIRECTORY

#### **GAME LIMITED**

Unit 15 The Pavillions Birmingham Tel: 021 643 4979

Unit 22
West Orchards Shopping Centre
Smithford Way
Coventry
Tel: 0203 256148

Units 2-8
Victoria Walk
Schofield Shopping Centre
The Headrow
Leeds
0532 465320

Unit 59 Arndale Centre Market Street Manchester M4 4HA Tel: 061-839-5101

Unit 12 Bargate Shopping Centre East Bargate Southampton SO1 1HF 0703 237771

Unit 15 Liberty Shopping Centre Romford 0708 734803

Unit 106
Thurrock Lakeside Shopping Centre
West Thurrock
Essex
RM16 1WT
Tel: 0708 890008

Unit 12 The Marlowes Centre Hemel Hempstead Tel: 0442 233882

Unit 6
The Glades Shopping Centre
Bromley
Kent
BR1 1DD
Tel: 081 466 0199

Unit A17
The Harlequin Centre\
Watford WD1 2AT
Tel: 0923 213494

3 Chevy Chase Eldon Square Centre\ Newcastle-upon- Tyne NE1 7UG Tel: 091 230 0239

**GAME LIMITED** 

Product	Price	Supplier	Comments
Anko AKTB500	£49.95	ABS Computer Supplies	Trackball with 'drag button'
Logitech Mouseman	£62.28	Acolyte Services	
Cordless Mouseman	£116.33	Acolyte Services	Uses radio technology
Logitech Pilot	£45.83	Dataplex	
Tec-Mouse	£34.08	Dimension Computers Ltd	Includes paint software
Microsoft Ballpoint	£104.58	Dimension Computers Ltd	Trackball for portables
Amstrad Mouse	£22.33	Dimension Computers Ltd	Works with Amstrad PCs
Axelen Mouse	£21.15	DS Computers	
Truemouse	£22.99	Evesham Micros	Serial/ PS/2 /Amstrad version:
Cordless Truemouse	£49.95	Evesham Micros	As above but with infra-red link
Golden Image Mouse	£34.95	Evesham Micros	Optical Mouse
Trackball	£39.99	Evesham Micros	Features lock drag
Mousepen	£116.33	KSI	Mouse shaped like a pen
Unmouse	£159.80	Picture Perfect UK Ltd	Tablet – use finger as
mouse!Nakasha Mouse	£41.13	RSC Ltd	Includes DPaint II
Squik Mouse	£19.98	RSC Ltd	Low cost serial mouse

#### TECHNICAL TERMS

A Mouse or Trackball requires a suitable **driver** to be installed before it will operate. Most devices are supplied with suitable software, but you should check first with the manufacturer. You should also note that there are different types of mice and trackballs designed to work with different systems (eg **Serial** and **Microsoft Compatible**), so make sure that you are buying the device that is correct for your model of PC.

#### **MODEMS**

Get your PC to be more sociable. A modern will connect you to other PCs via the telephone lines, giving you access to bulletin boards, public database networks and multi-user games – or you can simply use it to send messages to friends.

Product	Price	Manufacturer
Biscom (internal)	£258.50	Dataflex
Biscom (external)	£323.13	Dataflex
Comfax (internal)	£387.75	Dataflex
Comfax (external)	£517.00	Dataflex
Courier 2400e Quad (internal)	£464.13	Miracom
Courier 2400e Quad (external)	£522.88	Miracom
Keycard 3000 V22	£346.63	Miracom
Keycard 3000 V22 BIS	£464.13	Miracom
PC Professional	£517.00	Dataflex
Quadcom (internal)	£387.75	Dataflex
Quadcom (external)	£517.00	Dataflex
Rapier (internal)	£646.25	Dataflex
Stradcom (internal)	£193.88	Dataflex
Stradcom (external)	£229.13	Dataflex
WS4000 (SB2422)	£186.83	Miracom
Quattro 2400	c£500.00	Dowty
Smartmodem 2400 Quad	£339.57	Hayes
SM2400	£222.08	Amstrad
Milgo Maxam IV	£468.83	Racal
2400 MNP Class 5	£468.83	Worldport

#### TECHNICAL TERMS

PC Modems come in two types: **internal** and **external**. Internal versions require a spare expansion slot, but they are usually £50 to £100 cheaper than their external counterparts. External versions plug into a **serial port** instead. If you are going to use your modem mainly to communicate with one other party (e.g. a particular bulletin board) then you should first check which **protocol** is in use by them and buy the appropriate modem.

#### DOT-MATRIX PRINTERS UNDER £300

Dot matrix printers are coming down in price, but at the same time the quality is improving: letter quality modes are no longer dotty or lacking true descenders on letters such as 'g' or 'y'. This is particularly true of models with a 24-pin printhead. This is probably a good time to buy.

Company/model	Price	Speed	Buffer	Туре
Amstrad DMP3160	£233.83	160/40	16K	9-Pin
Brother M-1209	£264.38	168/35	2K	9-Pin
Citizen 124D	£292.58	120/40	8-32K	24-Pin

Company/model	Price	Speed	Buffer	Туре
Epson LX850	£269.08	200/30	4-32K	9-Pin
Mannesmann Tally MT81	£186.83	155/26	8K	9-Pin
Olivetti DM109	£257.33	240/36	21K	9-Pin
Panasonic KX-P1180	£252.63	192/38	2-K	9-Pin
Samsung SP 0930N	£222.08	300/50	3-11K	9-Pin
Seikosha SP1900AI	£116.33	192/40	1K	9-Pin
Seikosha SP2000	£233.83	160/40	6K	9-Pin
Victor VP10D	£210.33	175/30	None	9-Pin

#### **TECHNICAL TERMS**

A printer's **speed** is a measurement of the number of characters it can print per second. The first figure is for **draft mode** and the second figure is for **Near Letter Quality (NLQ) mode**. The **Buffer Size** is an indication of the amount of internal memory the printer has. The higher this figure is, the quicker your PC will be released to perform other tasks.

#### INK JET PRINTERS

Ink jets are the newly fashionable item for style-conscious PC owners: with distinctly better print quality than dot matrixes , the advantage of being virtually silent.

Company	Model	Price	Speed (Pages per minute)	Resident fonts
Mannesmann	Tally	£1,0994	pp	14 bitmap
Seikosha	OP-104	£940	4	14 bitmap
Hewlett-Packard	LaserJet III	£1,749	8	8 Scalable
Samsung	SL-1081A	£891	8	24 bitmap
Oki	OL830	£1,499	8	7 scalable Adobe
Oki	OL400	£899	4	25 bitmap
Olivetti	PG308	£1,399	4	24 bitmap
AEG	Laserstar 6	£999	6	9 Fonts

#### LASER PRINTERS

Laser printers have the same advantage of being quiet as ink jets and while they are not much more expensive, the resolution is markedly better. Laser printers are rapidly replacing dot matrix models as the standard office 'workhorse'.

Company	Price	Speed	Buffer	
Brother HJ100	£405.38	142/83	37K	
Canon BJ300	£699.13	300/150	30-128K	
Epson SQ850	£903.58	600/198	8K	
Hewlett-Packard DeskJet 500	£586.33	240/120	16K	
IBM 4072 ExecJet	£868.33	600/300	30K	
Mannesmann Tally MT9	£938.83	220/110	32K	
Olivetti JP350	£586.33	360/120	8K	

#### EXTERNAL DRIVES

If you don't have space for any more floppy disk drives – a problem with newer slimline models, you can always add an external model.

Model	Size	Capacity	Price	Supplier
IBM compatibles	3.5"	720Kb	£109.95	ABS Computer Supplies
IBM Compatibles	3.5"	1.44Mb	£119.95	ABS Computer Supplies
IBM Compatibles	5.25"	360Kb	£119.95	ABS Computer Supplies
IBM Compatibles	5.25"	1.2Mb	£129.95	ABS Computer Supplies
Amstrad 2000 range	5.25"	360K	£57.58	RSC Ltd
Amstrad 2000 range	5.25"	1.2Mb	£76.38	RSC Ltd
Olivetti/Amstrad 3000s	5.25"	1.2Mb	£175.08	RSC Ltd

#### CD ROM DRIVES

Are you looking to make your PC the ultimate games machine? Then a CD ROM drive is the perfect addition. CD ROMS offer a huge storage capacity, typically the equivalent of about 700 720Kb floppy disks! The only disadvantage is the slow access speed. There are not too many games or other CD ROM applications available at the moment, but the list is growing larger every month.

Model	Price	Supplier	Comments
Chinon CDS431	£351.33	SMC Computers	Internal
Goldstar GT2000	£398.33	SMC Computers	External
Philips CM50	£316.08	Diamond Computers	Portable

• The Philips drive comes with a free copy of World Atlas and Audio Player

# **DEALER**DIRECTORY

CUSTOM GAMES Incorporating Just Micro

22 Carver Street Sheffield S1 4SF

TEL: 0742 752732

STARGAZER
Amiga and PC Specialists
37 Upper Ththing Street
Worcester
WR1 1JZ

Tel: 0905 726259

#### **GALLERY SOFTWARE**

140 ARNDALE CENTRE WANDSWORTH LONDON SW18 4TQ

Tel: 081-877-1017 Fax: 081-870-4941

PC Software and hardware retailers -Contact us for all your PC requirements.



# **DEALER**DIRECTORY

#### BYTES N' PCs

4 STOCKWELL HEAD HINCKLEY LEICESTERSHIRE LE10 1RE

> FAX: 0455 615164 TEL: 0455 613232

#### **A-Z LEISURE**

23A LOWER MALL WESTON FAVELL CENTRE NORTHAMPTON NN3 4JZ

TEL: 0604 414528

#### **COMPUTER RUN**

21 STATION WAY COXETERS YARD ABINGDON OXON OX14 3RJ

TEL: 0235 528393

## BYTES AND PCS

4 STOCKWELL HEAD
HINCKLEY
LEICESTERSHIRE
LE10 1RE

TEL: 0455 613232

#### HAND SCANNERS

If you use any sort of Desktop Publishing package, then a hand scanner is an invaluable addition to your PC. While most hand scanners can only read small images and at a relatively low resolution, they are considerably cheaper than flatbed scanners.

• The PC Hand Scanner comes with a free copy of Microsoft Windows.

•The Marstek M105 Plus and M800 Plus are also available in versions for Windows. Add the suffix W to the model number and read the price as £139.83 and £186.83 respectively.

Model	Price	Colours	Supplier
AG-256	£164.50	256 grey shades	Watford Electronics
Genius GS-B105G	£176.25	256 grey shades	Reeves
PC Hand Scanner	£82.19	16 grey shades	UK Home Computers
Marstek M105	£81.08	64 grey shades	RSC Ltd
Marstek M105 Plus	£110.45	64 grey shades	RSC Ltd
Marstek M800 Plus	£169.20	64 grey shades	RSC Ltd
Marstek M-6000 CG Color Artist	£327.83	262,144 colours	RSC Ltd

#### DIGITISERS

While not being quite so high up on the essential DTP buy list as a scanner, a rudimentary digitiser can transform the appearance of your documents. Digitisers will allow you to import line-based artwork by tracing it with a stylus or puck. They're also ideal for Computer Aided Design applications.



#### **GRAPHICS SOFTWARE**

So you're the artistic type? If so then in the PC you have a potentially limitless canvas, not to mention a huge choice of software with which to realise your potential. Here's a selection of the best for budding Renoirs.

Product	Price	Supplier	Comments
VBase	£175.08	Highland Grafix	Full colour picture database
Clip Art	£5.88	Cybernetic Imagination	Range of disks containing 30 images each in PCX or IMG format
Deluxe Paint II Enhanced	£99.99	Electronic Arts	The standard cheap paint program for PCs
Deluxe Paint Animator	£99.99	Electronic Arts	One of a range of DPaint add-ons
Disney Animation Studio	£99.99	Empire	Cel animation package
Corel Draw v2	£270.25	Corel	Very popular and versatile
Designworks	£149.00	GST Software	New drawing package, comprehensive and great value

#### DTP SOFTWARE

The PC has always been a superb machine for DTP applications, and now that Windows 3 is firmly established this is even more the case. There are already a host of excellent DTP packages available for the PC at prices to suit every pocket. Here is just a small selection.

Product	Price	Supplier	Comments
Page Plus	£160.98	Serif	Budget priced page layout for Windows
Timeworks Lite	£41.13	GST	Simple DTP
Deskpress	£235.00	GST	Timeworks and more!
Pagemaker	£457.08	Aldus	Professional DTP package
Ventura Publisher	£587.50	Ventura	Professional DTP Package
Timeworks DTP 2	£116.33	GST	Improved version of the budget system

#### COMMUNICATIONS SOFTWARE

If you're one of those sociable types that likes to to link-up, go on-line, and download from time to time then you're going to need some suitable software to get in touch with your fellow PC owners.

Product	Price	Supplier	Comments	
Sage Chit-Chat	£66.98	Computers By Post		
Crosstalk	£71.68	Computers By Post	For Windows 3	
Eazlink	Shareware	Various	Try before you buy!	
Mirror 3	£121.03	Computers By Post	With teletext emulation	
PC Anywhere IV	£101.05	Computers By Post		
Procomm Plus	Shareware	Various	Very Powerful System	
Odyssey	£104.57	Shareware Marketing	Cost effective advanced	
			comms	

#### BUYERS' GUIDE

There are plenty of packages to choose from, especially in the Public Domain libraries. Here are a few we recommend you consider.

#### COMPOSING SOFTWARE

Gone are the days when you had to sit huddled over a second-hand Bontempi scratching notes onto a piece of torn manuscript. Most modern PC music packages make life a lot easier, some will even construct the score for you!

Product	Price	Supplier	Comments
Music Studio 3	£70.50	Datel	Sequencer, composer, score printing.
SPJunior	£163.325	Computer Music Systems	Music package
Sequencer plus Junior	£64.63	Computer Music Systems	64 track sequencer
Sequencer Plus Classic	£193.88	Computer Music Systems	500 track sequencer
Cadenza	£198.58	Digital Music	Sequencer with graphic editing
The Musicator	£368.95	Digital Music	Notation based sequencer
The Composer's Pen	£146.88	Composit Software	
Pianola	£29.38	Clockwork Software	
SongWright	£99	PC Services Scorewriting sy	stem

#### ANTI VIRAL

It's a sad state of affairs that Anti-Viral software is needed at all, but unfortunately there are still lots of people out there in computerland who haven't grown up and think it's funny to wreck other people's work and enjoyment of their machine. Naturally the same people don't think it's very funny when it happens to them. If you are one of these people then may we express complete contempt for your activities on behalf of the computing community. If you're one of the remaining 99.9% of decent, honest computer users, here are a few useful pieces of software to protect you from the aforementioned nerds.

Price **Product** Supplier Dr Solomon's Anti-Virus Toolkit £69.33 S&S International

Comments: £99 for 4 quarterly upgrades; £275 for upgrades, monthly newsletter and fax alerts. Complete kit of tools for identification, removal of and immunisation against the dreaded virus, with other disk goodies too.

The Computer Virus £27.00

Protection Handbook (Colin Haynes)

ISBN 0-89588-696-0

Comments: Includes 5.25" disk: The what, how and why of viruses including simulated ones on disk for quick recognition. Also covers disaster plans and industrial sabotage.

The Computer Virus Handbook Osborne McGraw-Hill \$22.95 (Richard B. Levin)

ISBN 0-07-881647-5

Comments: Lots of advice and short programs to avoid virus attacks. Covers hard disks too. PC. Immunise II £39.95 SA Software

Comments: Protects hard and floppy disks and files with three levels of detection and help

#95 VB Software Virus Buster

Comments: Comprehensive and easy to install software. Checks for more than 550 viruses; first update free then #50 per year for maintenance.

Norton Anti Virus Version 1.5 #149 Symantec

Comments: Comprehensive, provides protection against 700 viruses, price includes opportunity to attend Virus Clinic and access to Virus InfoLine for latest information.

#### MISCELLANEOUS UTILITIES AND PRODUCTIVITY SOFTWARE

Can't find what you're looking for in our other software sections? Then you'll probably find it here. Below we present a pot pourii of the very best of the rest.

Product	Price	Supplier	Comment
Autoroute Express	£61.10	NextBase	First rate route planning software
Coursemaster	£29.38	IntraSet	Betting aid for flat & hunt racing
Eight In One Gold	£115.15	Logman Logotron	Integrated WP, spellchecker, outliner, spreadsheet, database etc.
Flexibak Plus	£35.25	Nildram	Hard disk back-up utility
Framework IV	£458.25	Ashton-Tate	One of the better integrated systems
LogoLink	£34.08	Locomotive	Transfer files PCW-PC
Microtext Adaptor	£198.58	Microtext	Half card adding teletext to your PC
Mini Office Personal	£29.38	Europress	Database, WP, spreadsheet, label printer and comms.
Money Manager	£58.75	Connect Software	Household Finance
PC2 Teletext	£176.25	Microboss	External teletext adaptor and software
Printing Press	£45.83	Power Up	Make letterheads, posters etc
ProBook	£52.88	BBHW	Database and address book
Scoredraw	£72.00	RDN	Comparative analysis system for football result prediction

## **DEALER** DIRECTORY

#### SOFTSPOT LTD

**OXFORD COMPUTER** CENTRE **4 LINCOLN HOUSE** TURI STREET OXFORD OX1 2DS

TEL: 0865 794202

#### **ERA VIRTUAL REALITY**

Unit 6 The Capital Exchange Centre **Queen Street** Cardiff **CF1 411Q** 

Tel: 0222 641089

#### **ERA / BEATTIES**

UNIT 8 THE SHIRES LEICESTER LE1 4FR

TEL: 0533 512697

#### THINK PLAN LTD

3 RIVERSIDE WALK **BISHOPS STORTFORD HERTS** CH23 5AJ

TEL: 0279 506535

# **DEALER**DIRECTORY

#### **ULTIMA RETAIL**

UNIT 2
THE FRIARY CENTRE
2 FRIARS WALK
READING
BERKS
RG1 1B4
TEL: 0734 568510

118 EAST STREET SOUTHAMPTON SO1 1HD

TEL: 0703 639419

UNIT 28
WHITE LION WALK
GUILDFORD
SURREY

TEL: 0483 506939

#### M.D.S COMPUTERS

UNIT 47 INSHOPS RIGHTON HOUSE THORNBY STOCKOE-ON-TEES CLEVELAND TS17 9EP TEL: 0642 764199

# THE CARTRIDGE FAMILY

151 HIGH STREET TEWKSBURY GLOS GL20 5JP

TEL: 0684 290097

Product	Price	Supplier	Comment
Trackmaster	£20.00	Intraset	Greyhound racing tipster
Xtree Easy	£58.75	Softsel	DOS File manager
386^MAX	£79	International Data Systems	Memory Manager
Hijaak	£95	Software Paradise	Easy to use screen capture programme
Fast Lynx	£124.95	Ctrl-Alt-Deli	File transfer between PCs
Mace Utilities	#59.00	Software Construction Co	Intelligen full function disk recovery and optimiser.
Magellan	£115	Lotus Development	File viewer that finds a file in seconds.
Microsoft Works	#145		Capable and comprehensive integrated package
Microsoft Works for Windows	#145	Windows 3	integrated package - excellent value
Microtext Adaptor	£198.58	Microtext	Half card adding teletext to your PC
Mini Office Personal	£29.38	Europress	Database, WP, spreadsheet, label printer and comms.
Norton Utilities Version	5 £100	Symantec	Classic disk recovery & optimiser
Pinch and Punch 5	#30	Iolo Davidson	Simple to use screen grabber
PC Tools V 7	#139	Central Point Software	Good range of easy to use utilities
ProBook	£52.88	BBHW	Database and address book
Professional Master Key	\$25	Shareware	Shareware counterpart of Norton utilities
QEMM	£65	Quarterdeck	Memory Manager
Spinrite II	#89	Software Paradise	A disk optimiser specially designed to detect and correct disk problems before they occur
System Sleuth	#99.95	Megatech	Tells you what's inside your PC

#### **PORTABLES**

Whether for games or more serious use, a portable enables you to take your programs with you. Most are best used when you are able to plug into the mains on-site: battery power normally lasts between 1.5 to 3 hours. Portables are now becoming genuinely slim and light enough to carry around in comfort.

Company/Model Screen	Price (ex. VAT) Slots	Speed Weight	Disk Size Size (mm)	RAM
Amstrad ACL-386SX	£3,999	20 Mhz	120 Mb	4 Mb
VGA LCD	Yes	8.0 Kg	320x400x113	
Compaq SLT 386S/20	£4,195	20 Mhz	60 Mb	2 Mb
VGA LCD	Yes	6.4 Kg	106x343x216	
Dell System 320LT	£1,999	20 Mhz	20 Mb	1 Mb
VGA LCD	Optional	6.8 Kg	318x89x360	
Epson AX 3/33	£5,999	33 Mhz	80 Mb	4 Mb
VGA LCD	Optional	7.8 Kg	360x325x110	
NEC Prospeed 286	£3,145	16 Mb	40 Mb	1 Mb
VGA LCD	No	6.8 Kg	330x376x89	
Olivetti A12	£1,199	12 Mhz	20 Mb	1 Mb
CGA LCD	No	2.95 Kg	297x210x52	
Panasonic CF-270	£2,195	16 Mhz	20 Mb	1 Mb
VGA LCD	No	3.1 Kg	310x245x44	
Philips PCL101	£799	10 Mhz	No	1 Mb
CGA LCD	No	1.6 Kg	220x280x28	
Samsung 386S/16	£2,220	16 Mhz	60 Mb	1 Mb
VGA LCD	No	3.2 Kg	297x213x51	
Sanyo MBC-17NB	£1,495	12.5 Mhz	20 Mb	1 Mb
VGA LCD	No	3.2 Kg		
	310x255x52			
Sharp PC-8501	£7,995	20 Mhz	100 Mb	2 Mb
VGA LCD	No	6.9 Kg	318x399x94	
Tandy 1500HD	£1,300	10 Mhz	20 Mb	1 Mb
CGA LCD	No	2.7 Kg	309x245x94	
Toshiba T3100SX	£3,850	16 Mhz	40 Mb	1 Mb
VGA Plasma	Optional	6.8 Kg	360x310x80	
Zenith Supersport SX	£2,795	16 Mhz	40 Mb	1 Mb
VGA LCD	No	7.7 Kg	380x310x85	

#### MAINTENANCE AND REPAIR

A variant of Parkinson's Law states that your computer probably won't go wrong while you still have that 12 month, on-site warranty intact. Once it expires, that's when the machine will start playing up. Below we list some of the companies which will provide you with a service contract and then come to your rescue.

Company	Price	Duration	Call Out
Data Recovery Service			
AEM	10-12% value	5 years	24-48 hours
FMG	Up to £470 PA	5 years	Next day
Kalamazoo	9-12% of value	5 years	8 hours
Newbury Data	6-12% of value	Flexible	8 hours
Response	8-11% of value	Flexible	8 hours



Below you'll find contact numbers and addresses for all the suppliers we've mentioned in the sections covering hardware and serious software.

ABS Computer Supplies 4 Shouldham Street, London, W1H 5FG.	071 224 8320
Acolyte Services	041 848 0055/0066
Victoria Buildings Business Centre, Violet Street, Paisley, PA1 1PA.	041 040 007)/ 0000
AEG Olympia	
The Ridgeway, Iver, Bucks SLO 9HX	0753 630111
AEM	0684 850505
Unit 4, Tewkesbury Ind Est., Green Lane, Tewkesbury, Glos., GL20 8HD	0001 00000
AKORE Limited Shareware	0800 252221
7 Fishergate Point, Lower Parliament Street, Nottingham NG1 1GD	0000 2)2221
Freepost, Akore, Nottingham, NG1 1BR	
Amstrad (Centresoft)	021 625 3302
Amstrad plc	0277 262326
PO Box 462, Brentwood, Essex, CM14 4EF	02// 202520
Brother	
Shepley Street, Audenshaw, Manchester M34 5JD	061 330 6531
Canon UK	081 773 3173
Manor Road, Wallington, Surrey SM6 0AJ	001 //3 31/3
Citizen Europe	0895 272621
Wellington House, 4/10 Cowley Road, Uxbridge UB8 2XW	009) 2/2021
Compag	001 222 2000
Hotham House, 1 Heron Square, Richmond TW9 1EJ	081 332 3000
Composit Software	0000 000626
	0952 595436
10 Leasowe Green, Lightmoor, Telford, Shropshire, TF4 3BR Compuadd	0272 (27/00
	0272 637488
7 Great Western Way, Bristol BS1 6HA	021 70/ (000
Computer Manuals	021 706 6000
50 James Road, Tyseley, Birmingham B11 2BA	0762 (21101
Computer Mates  Pinamyood Studies Iver Heath, Puelts SLO ONIL	0753 631101
Pinewood Studios, Iver Heath, Bucks, SLO 0NH.  Computer Music Systems Ltd	071 402 5224
	071 482 5224
5-7 Buck Street, London, NW1 8NJ	004 7/0 004/
Computers By Post	081 760 0014
12 Sutton Lane, Banstead, Surrey, SM7 3QP.	004 = /0 0=00
Connect Software Ltd	081 743 9792
3 Flanchford Road, London, W12 9ND	
Corel	0703 899321
Xitan, 1-4 Chevron Business Park, Lime Kiln Lane, Holbury, Southamptor	
Corporate Upgrades Ltd	081 861 2370
Premier House, 2 Daton Road, Harrow, Middx HA1 2XU	
Ctrl-Alt Deli	0908 662759
26 North 12 Street, Central Milton Keynes, Bucks MK9 3BT	
Cybernetic Imagination Systems Ltd	0923 252196
21A Church Road, Watford, Herts, WD1 3PY	
Datacom	0256 763911
Landata House, Station Road, Hook, Hampshire RG27 9JF	
Dataflex	081 543 6417
10/12 Lombard Rd., South Wimbledon, London SW19 3TZ	
Dataplex	0753 535557
129 Bath Road, Slough, Berks, SL1 3VW	
19 High Street, Old Town, Swindon, Wilts SN14 4EG	0793 488448
Datel Electronics Ltd	0782 744707
Govan Road, Fenton Industrial Estate, Fenton, Stoke-on-Trent, ST4 2RS	

# **DEALER**DIRECTORY

MICROCOMP
DEVELOPMENTS
UNIT 47 INSHOP
WRIGHTSON HOUSE
THORNBY
STOCK-ON-TEES
CLEVELAND
TF17 9EP
TEL: 0642 764199

#### **PV COMPUTERS**

104 ABBEY STREET
ACCRINGTON
LANCS

TEL: 0254 35345

#### CHIPS GAMES CENTRE

CLARK YARD DARLINGTON CO DURHAM

TEL: 0325 381048

#### CHIPS

7 Dundas Street Redcar TS10 3AD

Tel: 0642 488522



## RED DRAGON SHAREWARE Dept PCF, 3 OAKLEA COURT, RHYL, CLWYD, LL18 4NP TEL: 0745 338094

\*Free Catalogue on request \*Same day dispatch on orders \*Free advice on all computer matters 5.25 Disks £1.60, 3.5 Disks £1.90 Payment by Cheque or Credit Card (Telephone orders accepted)

SPECIAL OFFER PACKS OF 10 IBM DISKS 5.25 @ £12, 3.5 @ £14.00 Hundreds of other disks available for IBM, Atari ST, and Apple Mac. Shareware is not free, please register if you find the program useful

Win3 Games Pack
Pack of 10 Disks with 35+ Games
inc, Chess, Backgammon, Xword,
Checkers, Cubic, Hextrix, Brick, WinPoker, Gravity, Monopoly, Taipei, etc.

Win 3 Music Pack

Boxplot, Cassette Caseliner, Guitar Scales, FM (Adlib & Soundblaser Edit(, WinPlay, Win Music, MVP-Keys, Music collection Prog, Sounder with Samples, Toolbook Progs

Win 3 Graphics Pack Paintshop, 2,000 Icons (2D), conDraw, BMP Mono Clip Art D), Screen Capture, Calendar for Corel Draw, GCP, Icon Manager, Gif21con, Winfern.

MUSIC AND MIDI PACK

Midl Misc Set of 3 Disks (too many progs to list) Pianoman, anoman Music (2D), Composer, Speaker Device Driver, Music Blocks, Music Librarian

VGA Graphics Pack VGA Paint, VGA Cad, Desktop Paint, SPlot, VGA Demos (2D), VGA Games (4D) - Mahjong, Bananoid, Shooting Gallery, VGA

Art & Graphics Pack

City Desk, Letterhead, PC Illustrator Mapmaker, DanCad, Draft Choice, Free Press, Painters Apprentice, Optics, Graphics Work Station.

CGA Games Pack disk set of 40 Games inc., Pango, Pitfall, Qibert, Frogger, Mahjong, Galaxy, Life, Centipede, Joing, Dragons, Paratrooper, Space Commander, etc, etc.

EGA/VGA Games Pack

Captain comic, EGA Trek, Pinball Commander Keen, Dark Ages, Othello, Moraffs Blast, Cunning Football, Mahjong, Daloman Depths, Space Flees, etc.

**Adult Pack** 

10 Disks of Miscellaneous Programs for the over 18's only.
Mixture of Pinups, Animations,
and Adult Games.

Matrix

## **Buy Your Software From Us** And We'll Buy It Back!

As a member of the Matrix you can choose from our extensive lists of the latest and the popular with our absolute guarantee to buy them back. AND you don't have to pay until you're decided.

- ★ Top name games, business and ultility software (sorry no PD or Shareware)
  - ★ Great prices ★ No commitment to buy ★ Computer helpline
- ★ Super fast service ★ established 1981 over 2.5 thousand members. To find out more about our unique Matrix money saving scheme call our 24 hour hotline, (0920) 444224, now!

or, send large s.a.e stating your machine (IBM/PC 3.5", Amiga, Atari ST) to : Matrix Leisure Services,
Dept PCR8, Unit 4 Mill Studio Business Centre, Crane Mead, Ware, Herts. SG12 9PY

1/2 price first years membership subscription!

#### THE

#### RACING BASE

**Horse Racing** Computerised information Runs on any PC with at least 1 Megabyte of memory Fully featured package includes

- Ready Reckoner multiple bets
- \* Speed figure creator
- \* Ratings and Prediction program and a complete statistical database with full details of

every jockey every trainer every course

All records can be edited and updated

THE MOST COMPREHENSIVE RACING PROGRAM CREATED and all for a fully-inclusive price of just £30 PLEASE STATE DISC SIZE

- Available NOW from:-

A. Vassallo

138, Magnolia Drive, Colchester, Essex CO4 3LX

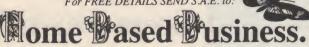
#### MAKE YOUR PC EAR

Yes making money with your PC becomes incidental when you know how! Your PC is, if only you knew it, a gold mine. The size and make is itrelevant. Make the initial effort NOW by starting your own HOME BASED BUSINESS.

This may be the most important move you will ever make!

REMEMBER: You'll never get rich by digging someone else's "ditch". Anyone in the country, including YOU, can become very rich in a relatively short period of time just by doing a few basic things! It's more rewarding than playing games.

The benefits are many and varied. Full or part time. For FREE DETAILS SEND S.A.E. to:



31 Pilton Place, PCR8, King and Queen Street, Walworth, London SE17 1DR.

## 225 TOP PC GAMES

£24.95

+ £2.00 p&p

NEW! NEW! GAMES SHAREWARE MEGA PACK 225 MORE GAMES!!

INCLUDING ALL THE LATEST EGA/VGA TITLES

Commander Keen 2 - Goodbye Galaxy\*; Duke Nukem; Crystal Caves;

Jumpman Lives; Artic Adventure; Secret Agent Man; Dangerous Dave; Moraff's World; Moraff's Entrap; Anacreon; Mega

Dario; Hugo's House of Horrors; Hugo II- Whodunnit; Beyond the

Titanic; Dracula in London; Alien's Laughed at My Cardigan; Sea Dragon; Prospector; Paganitzu; Spell Chick; Water; Flygame; Groundwar; Drop-It; Goal; Cunning Foot-ball; Mustang; McMurphy's Mansion; Road Warrior; & dozens more Arcade, Board Adventure, Jokes, Strategy, Puzzles,

Basic, etc. Games marked\* supplied on 3.5" disks only.

ONLY £24.95 + £2 p+p Supplied on 26 5.25 or 14 3.5" Disks

STILL AVAILABLE - GAMES SHAREWARE MEGA PACK 1

OVER 225 GAMES !!NCLUDING

Ford Simulator II; Captain Comic; Railroad; Bushido; Master Spy; Jacaranda Jim; Tetris
Shooting Gallery; Commander Keen; Jetset; Du ngeons & Dragons; Blast; Banaoids; EGAroids;
Roulette; 3D Tetris; Bass Tour; Pharoes Tomb; Grand Prix; Popcom; Airtrax; 3D Chess; 21; EGA
frek; EgabomStarGoose; Cribbage; Dark Ages; Wizards Lair; Global Warfare; Maximus; Pc Tennis;
Pc Pool; Americas Cup; Golf; + Dozens more Arcade; Adventure, Pinball, Cards, Strategy,
Simulations, Jokes, Board, etc,etc!!

Only £24.95 + £2 p+p. Supplied on 25 5.25" or 13 3.5" Disks

Please send me:Games Mega Games Mega	Pack 1 @	£24.95 + £2	2 p&p 🗇	Overseas Postage EC - £3 Non Ec - £4
Name :				
Postcode			•••••	• • • • • • • • • • • • • • • • • • • •
Il enclose £ I requir		5" 🔾 3	.5" 🔾 Disi	ksPCR

#### E.C. SOFTWARE ★

**★ 13 SHANNON DRIVE, HUDDERSFIELD HD3 3ŪL ★★** ★★ ACCESS/VISA ORDERS ON 0484 460070 ★★ **★★ 10 AM - 9PM 7 DAYS ★★** 

# POOLS KING

#### **RESULTS PREDICTIONS AND STATISTICAL INFORMATION PROGRAM FEATURES**

- Input results for all divisions.
- Review/ Edit results.
- Predictions for all divisions using detailed formulae.
- Save predictions for future input of results.
- View all league tables.
- Also a form table for each division .
- Detailed home/away form for each team.
  - IE results of last 6 games home and away + opponents and a
- English premier 1,2,3 divisions. Scottish premier 1,2 divisions
- Plus a fantastic feature which allows you to create and delete teams/divisions
- Up to 300 teams
- Up to 15 divisions which means that you may include your local Sunday league, foreign country leagues or other sports leagues.
- Points for a win may be changed.
- Simple to promote/relegate teams and create /delete.divisions
- Data from last season included. File simple to maintain.
- Detailed help screens.
- Several printouts available (tables, Predictions etc)

For all IBM PC'S and compatibles. Please state monitor types Please send cheque/draft for £24.99 (+£3 P+P if outside UK and Ireland). Please state format of disk.

MR DAVID HEVER, CARRICKBANAGHER, DRUMFIN, BOYLE, **COUNTY SLIGO IRELAND.** Payable to: DAVID HEVER

> TELEPHONE (010353) 71 83203 **ONLY £24.99**

#### **BUYERS' GUIDE**

# **DEALER**DIRECTORY

### LOGIC SALES

50 LYNTON PARADE CHESHUNT HERTS EN8 8L8

TEL: 0992 25323

Pudsey Computers Shop

161 Richardshaw Lane Pudsey Leeds LS28 6AA

Tel: 0532 360650

#### **INVICTA SOFTWARE**

49 QUEENSROAD HASTINGS SUSSEX TN34 1RE

Tel: 0424 444515

**Data Day Computers** 

31A Farringdon Road Swindon Wilts SW1 5AR

Tel: 0793 512073

BOTENS GOIDE	
Datel London Shop	071 580 6460
222 Tottenham Court Rd, London W1	0000 (1/525
Dell Computer Corporation Millbank House, Western Road, Bracknell, Berks RG12 1RW	0800 414535
Diamond Computers 232 Tottenham Court Road, London, W1.	071 580 4355
Digital Music	0703 252131
27 Leven Close, Chandlers Ford, Hants, SO5 38H  Dimension Computers Ltd	0533 517479/621874
Dimension House, High Street, Leicester, LE1 4FP.	0555 51/4/9/0218/4
Dowty Information Systems Newbury Business Par, London Rd., Newbury, Berkshire RG13 2PZ	0635 33009
DS Computers	071 281 5096
Unit 206, Belgravia Workshops, 157 Marlborough Road, London, N19 4NF. <b>Elonex</b>	081 452 4444
2 apsley Way, London NW2 7LF	
Epson Campus 100, Maylands Avenue, Hemel Ehmpstead, Herts, HP2 7EZ	0442 61144
Evesham Micros	0386 765500
Unit 9, St. Richards Road, Evesham, Worcs, WR11 6XJ FMG Ltd	0733 371304
Newcombe Way, Orton Southgate, Peterborough PE2 6SF GST	0480 496789/496666
Meadow Lane, St Ives, Cambridgeshire PE17 4LG	0400 490/09/490000
Hayes Microcomputer Products Inc 1 Roundwood Avenue, Stockley Park, Uxbridge, Middx UB11 1AE	081 848 1858
Hewlett Packard	0344 369369
Cain Road, Bracknell, Berks, RG12 1HN <b>Highland Graphix Ltd</b>	0355 264888
18 Albion Way, East Kilbride G75 0YN	
IBM Freepost, London W4 5BR	081 747 0747/995 7700
International Data Systems	071 436 2244
37-41 Gower Street, London WC1E 6HH Intraset Ltd	0257 276800
10 Woodside Ave, Clayton-le-Woods, Chorley, Lancs, PR6 7BR  Iolo Davidson	0453 860872
Scrubbetts, Bagpath, Tetbury, Glos GL8 8YG	0455 800872
Kalamazoo Mill Lane, Northfield, Birmingham B31 2RW	021 411 2266
Kodak	0442 61122
PO Box 66, Station Road, Hemel Hempsted, Hertfordshire HP1 1JU KSI	0590 644255
Unit 1, Braxton Courtyard, Lymore Lane, Milford-On-Sea,	3,70 0112,7
Lymingtyon, Hants SO41 0TX  Logitech	0344 891313
Hawes Hill Court, Drift Road, Windsor, Berks SL4 4QQ	0000 2006
Longman Logotron Dales Brewery, Gwydir Street, Cambridge CB1 2LJ	0223 323656
Lotus Development (UK) Limited  The Course W. Staires Middlesey TW/18 2AC	0784 455445
The Causeway, Staines, Middlesex TW18 3AG  Mannesman Tally	0734 788711
Molly Millars Lane, Wokingham, Berks RG11 2QT  Maplin Electronics	0702 552911
PO Box 3, Rayleigh, Essex SS6 8LR	
Megatech 111/113 Wandworth High Street, London SW18 4HY	081 874 6511
Memory Direct	0252 316060
33 Grosvenor Road, Aldershot, Hants., GU11 3DP  Microsoft Technology Limited	0734 270000
Excel House, 49 De Montford, Reading, Berks RG1 8LP	0705 505(0/7
Microtext Birdlip Close, Horndean, Hants, PO8 9PW	0705 5956947
Mindscape International Limited The Coach House, Hooklands Estate, Scaynes Hill, W Sussex RH17 7NG	0444 831761
Miracom	0206 844834
Premier House, Telford Way, Colchester Business Park, C, Ess CO4 4QP  Mitsubishi Electric UK Limited	0707 276100
Travellers Lane, Hatfield, Herts AL10 8XB	
Naksha 29 The Wharf, Warrington, Cheshire WA1 2HT	0925 56398
NEC	0800 181368
1 Victoria Road, London, W3 6UL Newbury Data	0784 461500
Hawthorne Road, Staines, Middx TW18 3BJ	02/5 265017
Newstar International The Widford Old Rectory, London Road, Chelmsford, Essex CM2 8TE	0245 265017
NextBase Ltd Unit 18, Central Trading Estate, Staines, Middx, TW18 4XE	0784 460007
one to, central trading Locate, Staines, Prioces, 1 w 10 4AE	

_		
	Olivetti	0908 690790
	1 Deltic Avenue, Rooksley, Milton Keynes MK13 8LD PC Services	081 658 7251
	40 Rowden Road, Beckenham, Kent BR3 4NA Pace Micro Technology	0274 532000
	Victoria, Saltaire, Shipley BD18 3LF Panasonic	0344 853915
	Panasonic House, Willoughby Road, Bracknell, Berks RG12 8FP Philips & Pye	081 689 4444
	City House, 420/430 London Road, Croydon CR9 3QR Picture Perfect UK Ltd	0264 333643
	Honeysuckle Cottage, Green Meadow Lane, Goodworth, Clatford, Andover	
	Power Mark Premier House, 112 Station Road, Edgware, Middx, HA8 7AQ.	
	Precision Software 6 Park Terrace, Worcester Park, Surrey KT4 7JZ	081 330 7166
	Prestige Network Ltd Reynolds Green, Camberley, Surrey, GU15 4FL	0276 60073510
	PC-Sig Uk 111/113 Wandworth High Street, London SW18 4HY	081 877 1103
	Psion 85 Frampton Street, London NW8 8NQ	071 262 5580
	Quarterdeck	0245 496699
	The Widford Hall, Widford Hall Lane, Chelmsford, Essex CM2 8TD RDN Datasystems Ltd	0424 752288
	PO Box 44, Hastings, East Sussex, TN34 2SY Reeves PLC	0604 671277
	Technology House, 75 Tenter Road, Hanson Business Park, Moulton Park, Northampton NN3 1PZ	
	Response Computer Maintenance Limited Rays House, North Circular Road, London NW10 7XB	081 965 3225
	Roland UK Limited Rye Close, Ancells Business Park, Fleet, Hampshire GU13 8UY	0252 816181
	RSC Corporate Computing	0923 243301 .
ı	75-77 Queens Road, Watford, Herts, WD1 2QN. Samsung	081 391 0168
	Samsung House, 225 Hook Rise South, Surbiton, Surrey KT6 7LD Sanyo	0923 246363
	Otterspool Way, Watford TD2 8JX SA Software	081 998 2351
	28 Denbigh Road, London W13 8NH Seikosha	0753 685873
	Unit 14, Poyle 14, Newlands Drive, Colnbrook, Berks SL3 0DX Serif (Europe) Ltd	0602 421502
	PO Box 15, West PDO Nottingham NG7 2DA Sharp	061 205 2333
l	Sharp House, Thorpe Road, Newton Heath M10 9BE	0573 550333
l	SMC Computers 26 Farnham Road, Slough, Berks SL1 3TA	
	Softsel UK Softsel House, 941 Great West Road, Brentford, Middx	081 568 8866
	Software Paradise Avenue House, King Edward Avenue, Caerphilly, Mid Glam CF8 1HE	0800378873/0222 887521
١	Symantec MKA House, 36 King Street, Maidenhead, Berks SL6 1EF	0628 776343
	Tandy Tandy Centre, Leamore Lane, Walsall WS2 7PS	0922 710000
1	Technomatic Techno House, 468 Church Lane, London, NW9 8UF.	081 205 9588
	Time	0254 691822
1	Time House, Devonport Road, Blackburn, Lancs, BB2 1EJ Total Control (UK) Ltd	0488 685299
ļ	Unit 3, Station Yard, Hungerford, Berks, RG17 0DY Toshiba	0932 841600
1	Weybridge Business Park, Addlestone Road, Weybridge, Surrey KT15 2UL Triumph Adler	0206 845251
	Ipswich Road, Colchester, Essex CO4 4EG  UK Home Computers	0793 695034
	Unit 22, Cheney Manor Industrial Estate, Swindon, Wilts, SN2 2PJ Unimart Computers Ltd	081 893 8161
	2 Popes Court, Popes Avenue, Twickenham, Middx TW2 5TR Victor Technology	0494 461600
	Unit 1, Valley Centre, Gordon Road, High Wycombe, Bucks HP13 6EQ	0923 237774/233383
	Watford Electronics 250 Lower High Street, Watford, WD1 2AN.	
	Westpoint Creative Delta House, 264 Monkmoor Road, Shrewsbury SY2 5ST	0743 248590
	Zenith 452 Bath Road, Slough, Berks SL1 6BB	0268 668588
-66		

# DEALER DIRECTORY

#### **INVICTA SOFTWARE**

82 GROSVEIER RD TUNBRIDGE WELLS KENT TN11 2AS

Tel: 0892 511542

**CHIPS** 

151-153 LINTHORPE ROAD MIDDLESBROUGH CLEVELAND

TEL: 0642 232096

#### CHIPS GAMESCENTRE

SILVER COURT SHOPPING CENTRE SILVER STREET STOCKTON ON TEES CLEVELAND

TEL: 0642 618256

#### YARM COMPUTERS

137 HIGH STREET YARN

TEL: 0642 786922



# Arena



"The Arena for all your sales and wants"

#### FOR SALE

#### Hardware

AMIG A 1500, Monitor, Mouse, Joystick, Manuals, Promotional software pack value £200; unwanted prize, still boxed, ONLY £650. Phone (0203) 473340.

AMSTRAD PC2086 Dual 3.5" VGAcolour 14", Microsoft mouse, Windows, MSDOS 32Mb Hardisk Printer, BARGAIN at just £600, All leads included, Call 081-656-0854(Croydon)

#### Software

GAMES FOR SALE: Wing Commander £20, Elite & Lemmings £10, various Flight simulations £15 each, Silent Service II £15, Also 3 joysticks & games card. PhoneTim 0634 847729 after 6pm GAMES FOR SALE: Chess 3000, £12.; Links & One Course £16; Floor 13 £10 ALL THREE 3.5 & 5.25"Wing Commander II £15 Call Peter 0954-61032

GAMES FOR SALE: KQ5 plus KQ companion (2nd Edition) £20. Plus ECO Phantoms, Operation Combat, Terran Envoy, Viking Child., Xiphos,£5 Each.Phone:(081)992 3078

TOP 10 PC GAMES £5.00 each . Honestly its not too good to be true. For full list , SAE to: 74 Mount Drive Harrow Middx. ha2 7RP

WANTED: Pirates (Microprose), Alter Ego (Activision), Knights of Legend, (unknown) and Larry 3 (Sierra).. Will pay reasonable price or swap. Phone Joe: 0222 842589

WANTED: The Nine follow up Star Trek Trivia Shareware disks by Apogee Software. Call Peter 0954 - 61032.

KING'S QUEST 5 The complete solution. For return of post help. Send PO/Cheque £3.00 to A.Monkton, 43 Ambleside Road, Blackpool. Lancs FY4 4SH

> To advertise in PC Arena please fill in the form below and send it to us at the usual address.



# PC ARENA

Welcome to PC Reviews new PC Arena! Now you have the chance to buy, sell, or just ask for something you've wanted for weeks!

What could be easier.....

#### Here's how it works:

- 1. All entries cost £5 for a maximum of 25 words, including your address and/or telephone number. Each entry must be sent separately with its own £5 cheque. Please do not send cash.
- 2. All entries are personal, this is strictly a reader service.
- 3. All entries must be written on the form below (photocopies are accepted but anything else submitted will not

All entries will be served on a first come first served basis. If we don't have the space to run your advert we will hold it until the next issue unless you clearly state otherwise. If we cannot accommodate it in that issue, we will tear your cheque into several small and unbankable pieces.

#### TO APPLY

Fill in the coupon, along with your name, address and telephone number. We'll print all your details, unless you specify otherwise; and post it, along with a cheque for £5 (made out to Emap Images) to

PC Arena, PC Review Magazine, Emap Images, 30-32 Farringdon Lane, London. EC1 R 3AU.

#### PC ARENA COUPON

Fill in the form below including your address and telephone number and send to PC ARENA, PC REVIEW MAGAZINE.

Your advert will appear in the earliest possible edition.

	Please to	ick one b	ox for you	ır categoi	ry.
Har	dware for	Sale	□ Soft	ware for	sale

- ☐ Hardware wanted
- ☐ Software wanted
- ☐ Miscellaneous

Address:.....

Telephone No:..... 

CONDITIONS: The advertisement manager reserves the right to alter, reject or suspend an advertisement without assignir reason. Advertisements are accepted subject to approval of copy and to the right of the advertisement manager to after, recancel any order without explanation. The proprietors are not liable for any loss from any cause whatsoever, nor do they accombility for printers' errors. The advertisers shall indemnify the publishers in respect of any claim, cost and expenses arising us or malicious matter or untrue statement in any advertisement published for the advertisers, or any infringement right, patent or design therein. The placing of any order will be deemed to be an acceptance of these conditions



Some tips for hapless Amstrad owners, strong views on RPGs, and interest in our European Championship cover disk demo are just some of the ingredients of this month's Letters page.

#### **Back issues**

I am inquiring whether or not it is possible to purchase previous issues of PC Review. If so, I would like to purchase March/April copies. Could you please inform me of the best way to do this?

M J Dale Marston Montgomery Derbysbire



Turn to page 87, and you'll find all the details you need for ordering back issues of the magazine.

#### Choices, choices

ve just read the letter from G Kent of Gloucester in PC Review Issue 8 and he is in a similar predicament to me, but I am having problems proving to a friend that PCs have a much wider range of functions than a Mac. Is my argument true or am I in the wrong? Please enlighten me on this.

Also I have recently bought Monkey Island 1 and 2. I've completed 1 and am halfway through 2, so I have started thinking about other games, and reading your reviews I have decided on Gods or Loom (not reviewed). Are these good choices and which would you recommend? I loved the demo of Gods on one of your cover disks, and if it is as good as your review it seems well worth getting. The kind of games I like are role-playing, with a touch of fast-moving action, like Gods or Golden Axe - what other games can you recommend?

Another problem I have is that I use my Dad's computer and he has a lot of business stuff like 1-2-3, Word and others, so to get Monkey Island 2 on the hard disk I had to delete or Pkzip on to disks a lot of stuff. However, we are again struggling for space with about 1Mb left so I have been wondering if you can increase the space on a hard disk or do you have to buy a new drive, or can you get an extra disk to work in conjunction with the old 40Mb disk?

Oliver Pyle Buntingford Herts



PCs and Macs have pretty similar functions in that they're both computers used extensively in the business community to automate

tasks. Macs have tended to be used more than PCs for desktop publishing and graphic work; PCs have always been the preferred choice for word processing,

database and spreadsheet functions. When it comes to games, the Mac can be pretty nifty, but it simply doesn't have the established software base of the PC, nor the upgradability and range of leisureorientated add-ons.

It sounds as though you've seen enough of Gods to enable you to come to a decision; other games in this line are the forthcoming Magic Pockets (also from the Bitmaps) and Heimdall (reviewed Issue 7). Keep an eye too on the Classic Games section: Rick Dangerous 2 (Classic Game of the Month in Issue 9) sounds like the sort of thing you'd be interested in.

To give yourself more hard disk space, either replace the existing drive with a

bigger one, or add a new hard disk, or hard card as well as the current one.

This second is probably the better bet, since you and your Dad could then keep your programs separately on your own drives. Hard disks aren't too difficult to install yourself, but make sure you get a decent set of instructions when you buy the device (we did a First Steps feature on fitting hard disks in Issue 3). A hard card is an easier option; this is a hard disk on a board which fits into a free expansion slot.

#### Monkey hang-ups

own an Amstrad 2286/40 computer and have recently purchased the game Secret

#### **RPG** follies

It was nice to read a letter (from Martin Gower) in your May issue concerning Bard's Tale 2.

The reason for writing is to make, I hope, some constructive criticism on the 'modern' RPG games, which fall foul of an elementary piece of gameplay which the older games all seem to have had.

Before I start, I freely admit that the newer games, like Eye of the Beholder, are at a different level than Bard's Tale and the even older Wizardry; the graphics, sound and ease of use make them marvellously atmospheric, and you really are swept into the programmer's world.

This makes it a pity when you are then abruptly jerked out of that world to restore your party because they have all been wiped out!

> Obviously this will happen in all games of this sort there must be that element of 'risk' after all, but in the ones I've mentioned the restoration of your carefully nurtured characters took place within the context of the game.

In Wizardry, you had to form another party to go in and rescue the dead characters, and in that and Bard's Tale you then had to accumulate sufficient funds (or sufficiently powerful characters) to resurrect the dead. It was

still part of the game, and a penalty you accepted for your folly in allowing your party to be wiped out.

In Eye of the Beholder though, there is no in-game mechanism to do this, you simply restore from your last back-up. To make things even worse, it is simply impossible to complete Eye without being wiped out many times over, often in a completely arbitrary way through no fault of your own. In fact, in a lot of situations you can only succeed by repeatedly restoring and waiting for combats to go your way by chance. To me at least, this completely destroys the rapport you have built up with your team and ruins the involvement; I felt no sense of achievement on completing Eye, just the feeling I had completed an assault course by sheer perseverance and mechanical 'cheating'.

Anyway, that's my moan out of the way. It's just a little plea to ask that the programmers in future try to keep in context of the escapist world, and don't allow the outside world to intrude; that's what we play games for, isn't it?

Paul Hemmings Newcastle Under Lyme Staffordsbire

of Monkey Island 2. I loaded the game on to hard disk with no problems and played the game. The difficulty comes when I try to save a game or load a saved game. Initially it wouldn't save a game without causing the computer to lock up.

I reinstalled the game, making sure I had a spare 1.2Mb of space on the hard disk. This time the computer would lock up after saving two games or when I tried to load a

saved game.

I'm getting rather bored playing the same part of the game all the time. Can you help? Is it the software or the computer?

A R Chappell **Brize Norton** Oxon



US Gold says that the only consistently reported problem with Monkey Island 2 has been difficulty in running the game if you have DR DOS

6 with an early version of the hard disk space saver Superstore. You don't say what operating system you're using; if it is DR DOS with Superstore, then you'll have to delete Superstore, or get a final version of it. However, I suspect it's far more likely that this isn't the root of your problem, and US Gold also says it sounds more like a faulty disk which needs exchanging.

#### CD-ROM Review?

've been buying your magazine for every I've been buying your magazine lissue now, but just lately you've started reviewing more CD-ROM games than PC games. Maybe your magazine should be called CD-ROM Review instead of PC

In your QED section I think you have too many help sections for RPGs. I'm not a fan of RPGs, so it gets a bit boring to open up your magazine and find pages of help for RPGs. Could you try to include some cheats for platform and arcade games?

Michael Parkinson Peterborough



Oh Michael, come on. Reviews of titles on disk consistently outnumber reviews of CD-ROM titles by four to one, and we'll

continue to review as much disk-based and CD-ROM software as we possibly can.

OK, so we published fairly detailed tips for Eye of the Beholder II, but I hope you've also noticed the extensive maps for Gods, which in anybody's book, counts as an arcade-style game.

Actually, I can appreciate the feeling that the PC world is made up of PGs and flight sims and that arcade games get overlooked. The fact is that arcade games on the PC are still a relatively new phenomenon and there aren't proportionately as many of them as there are on other formats. As the PC becomes

more and more established as a leisure computer, you should see greater numbers of all types of game appearing.

#### Speaker's corner

fter recently smashing my piggy bank A to bits and paying a terrifyingly huge sum of money to upgrade my old 16MHz 286 machine to a 40MHz 386DX with 64K cache and 4Mb RAM, I was greatly impressed with the performance of my favourite games - I no longer felt the need to get out and help Jim Kirk give the Enterprise a push!

Additionally, with the 'new' system came a surprise bonus — my new PC speaker (I couldn't afford all the above and a sound card) now produces a sound far superior to the old one. I could at last hear, clear as a bell, Chuck Yeager welcoming me to Air Combat and telling me what a great day for flying it was,a nd all too often I could hear the commentator on Links Golf telling me it looked like my balls were bouncing off the trees.

With the sound of Star Trek's phaser fire echoing round my skull, I set course for my local department store with the intention of giving my self a treat and picking up a game that would really stretch my new system. Reading the blurb on the back of the box, and remembering the wold things proclaimed about it, I opted for a copy of Wing Commander 2. Naively, I imagined that even without a sound card, the music and effects, etc, wouldn't be too bad. At least, I hoped, it would be on a par with Star Trek.

What did I get from this memory-hungry, ground-breaker of a game, that costs so much money (and time, and memory, and memory, and memory and ...) to play? Almost total silence.

A few gritty sounding belches from the speaker when you fire your weapons is about the best you can hope for.

Surely it doesn't take much effort on the part of the manufacturer to take the poor old PC speaker into account when producing these games. Even if it does, when you're paying about £40 per game, then isn't the customer worth it? And even if we're not, I for one wouldn't object (more than I already do) to paying a little more cash for a little more product.

Meanwhile, can you or any other readers recommend a decent game or two that might seem to fit the bill?

P D Godden London W3



Wing Commander 2 is definitely a game meant to be played with a sound card - or two. The more realistic sound effects to come out of the PC

speaker tend to be the grinding engine noises you associate with driving games or flight sims, but they also tend to irritate the hell out of anyone else in the house not actually playing the game. However, the Bitmap Brothers usually program in some

reasonable speaker sound in their games (Cadaver, Gods, etc, etc); Tracon, which is an air traffic control game from Mindscape is pretty good in this respect, and also Dark Seed (reviewed Issue 9) makes good use of the speaker for speech.

#### Elite's vellow card

**B**eing the mad Spurs fan that I am, I just had to write to you about the demo of European Championship Soccer 1992 that came with PC Review Issue 8. This game has the most incredible playability level that I have ever experienced. I would immediately part with the money to buy this game if it were not for one crucial aspect - sound.

am hoping that the demo was a prerelease version and that Elite has got enough common sense to include speech and other vital sound effects. Let me give you two examples: a) the referee's whistle and, b) the crowd noise. These were so bad that I had to turn my Sound Blaster off for fear of ruining my enjoyment of such a fantastic game!

If Elite does not come to its senses I am hoping that the reviewers at PC Review can lean on them sufficiently enough to persuade it to get its act together.

Martin Emery Hillingdon Middleser

#### Man of the match

Lextremely pleased with European Championship Soccer. It is easily the best footer game on the PC and I will definitely by buying it when it comes out. Now to get to the point, my friend owns an ST and can not stop raving on about how superior the games are compared to the PC. I own a 386 20Mhz and feel I am able to enjoy far superior graphics and depth of gameplay and with games like Monkey Island 2 and the Ultima series I can't help but feel that the PC far overshadows the puny ST. Also the PC is far more versatile than the ST.

Please will you print this letter so I can finally shut my misinformed friend up. Finally, can you recommend a good flight sim that I can buy?

Ian Lewis Birmingbam

#### Amstrad upgrades

Reading through the letters and Q&A pages of Issue 7, it seems that I have been around most of the problems at one time or another. I started with an Amstrad 2286 a couple of years ago and moved to a 2386 last year. Perhaps you would let me share my experiences with your readers.

Amstrad upgrade: the best advice on upgrading an Amstrad 2086 or 2286 is forget it. Amstrad will only sell the motherboard for these machines on a one-for-one. like-for-like basis and they will not deal with end users, so there is no joy to be had

there. Because of this policy, its agents and maintenance companies are also unable to sell or exchange a motherboard, another dead end. As was correctly stated in Q&A Issue 7, Amstrad uses a non-standard form factor (size and shape) for its motherboard. It is therefore unlikely that any of the replacement motherboards currently available will fit into the case. Screw holes and support pillars will not line up, expansion board outlets will be in the wrong place, plugs and sockets will not match, etc.

Even if another motherboard was fitted, it is a matter of conjecture if the BIOS will work successfully with the DOS supplied with the original system. It is also unlikely that the replacement board will be fitted with a Paradise 256K SVGA controller, which is built into the Amstrad motherboard, so add another £50-£100 to the cost of the upgrade. At the end of all this, the system may or may not, if it works at all, certainly no repair organisation will want to touch it with somebody else's barge pole if it ever goes wrong.

Why go to all this trouble and expense to get an Amstrad 2386? Crown Computers will throw a mono one in for free if you buy Lotus 1-2-3, freelance Graphics and Ami Pro v2.0 from them. That little lot amounts to about £600, only a little more than the messy upgrade, and you have a system most small companies would be quite happy to have. Take the high resolution monitor off the original system and put it on the 2386 and sell the original to somebody who wants a word processor with a mono screen. You then have a cheap, by any standards, upgrade with a year's warranty thrown in.

Amstrad mice and Windows: anybody who is thinking of installing Windows 3.x on an Amstrad 2x86 with the Amstrad mouse is in for a nightmare time. The cursor arrow will go all over the place, click boxes will shudder or blank and it will seem the worst thing you have ever undertaken. The reason is that Windows expects a Microsoft-compatible mouse on a serial port, not one on a proprietary port. The

mouse driver Mouse.com, written by a company called MEJ, and probably at Rev 5.0c, is the root of the problem. Edit the file and look for a line with that information towards the end.

A call to Amstrad's technical support on (0898) 808181 will get you a copy of the program Mousefix. This converts Mouse.com into Mouse.sys, now at Rev 7 or above, which is started by Config.sys, when all will be well. Yes, you will have to pay for every minute you are on the phone with the 0898 number, but you do get through almost immediately and they don't waste your time, a bit different to waiting 15-20 minutes for a Microsoft support person.

Soundboards: unless you want to be another Handel and turn your PC into the Albert Hall organ, you can enhance gameplay with the Media Music board from Evesham Micros. It comes with the naffest juke box program one is ever likely to want to meet. That apart, it is Ad Lib compatible and has a built-in amplifier and volume control, so the speakers supplied with it, or headphones, can be plugged in directly. Using headphones on something like Red Baron is an experience I can really recommend.

I am still trying to work out why a PC magazine should have *two* reviews of an electric bike. However, the game and flight sim reviews are great and I look forward to a preview of the Red Baron missions due out later this year.

Roy W Lavis Fleet Hampshire



As a quick footnote to your mouse advice, Amstrad's 0898 number is charged at 48p per minute at *all* times. As for the pleces (hardly

reviews, really) on Sir Clive Sinclair's Zike, I'm afraid both the editor and news editor are old fogeys who fondly remember the days when Sir Clive was the very embodiment of the UK home computer industry, and we felt many of our readers would also feel nostalgic enough to want to know what he's up to now. Adam Moss (see Star Letter, page 141) knows how we feel, anyway.

#### **Space savers**

For a long time I have been looking for an RPG game. I like the look of Ultima Underworld, Eye of the Beholder II and Monkey Island. My dad uses the PC for work and he says I have a maximum of 5Mb hard drive space. Could you recommend an RPG game for me?

Ryan Linfoot Newbridge Midlothian

Every issue we get a letter asking for RPG recommendations, and we always seem to end up with Eye of the Beholder. There's no way you'll squeeze Ultima Underworld into 5Mb; the minimum space it will take up is 8Mb (it also requires a 386SX or more powerful PC to run). Monkey Island is a humorous adventure rather than an RPG, strictly speaking, so it depends what your preference is here.

#### I'm all right, Jack

I am getting fed up with reading letters from people having trouble running Wing Commander II. I have a 386 running 40Mhz, 130Mb hard disk, 3.5 inch disk drive, super VGA monitor and 4Mb memory and it runs completely all right.

Simon Page Seaford East Sussex

Let me recommend you a book. It's called How to Win Friends and Influence People...

# WINNERS

#### Flying lessons (Issue 7)

Sorry to announce the winners for this competition an issue later than expected; all winners should have received prizes (and made use of them) by now. Helicopter identification is obviously a popular pastime for many of you: a good post-bag with a high proportion of correct entries.

Our big first prize, a day at MicroProse plus a helicopter flying lesson, was won by **Mr G B Fergus** of Wolverhapton, so many congratulations to him. The following five people won tickets to the Air Tournament International 1992, plus that all-exclusive MicroProse T-shirt: **K S L Tilbrook**, of Redcar, Cleveland; **Stephen Tankel**, of Elstree, Herts; **Nicholas Darters**, of Bishopbriggs, Glasgow (we think – the handwriting could have been clearer); **G J Olsson**, of Dorking, Surrey; and **Richard Parker**, of Acomb, York.

Finally, the winners of Gunship 2000, plus T-shirt, were: Paul Maskell, of Watford, Herts; Piers Wilson, of Enderby, Leics; Ian Krauesslar, of Basingstoke, Hants; Huw Davies, of Newport, Gwent; and Philip Mynors, of Rowlands castle, Hants.

The correct answers were that the AH-64A Apache was picture B; the AH-1W Supercobra was E; the OH-58D Kiowa Warrior was A; the UH-60 K/L Blackhawk was C and the AH-6G Defender was D.

#### Our starter for ten

Just a few questions. I hope you can answer them. 1) Is Robocod coming out for the PC? 2) What is the best sound card available at a realistic price? 3) How good is the compilation Top League? 4) What is the best platform game available for the PC? 5) What is Dr Dos 6? 6) Is Sensible Soccer coming out for the PC? If not, are there any other good football games available? 7) Will classic console games such as Sonic the Hedgehog or any of the Mario games be making an appearance on the PC?

Daniel Willis Bradford-on-Avon Wilts



- 1) No plans for a PC Robocod at present, I'm afraid.
- 2) Well, Roy Lavis (above) reckons that Evesham Micro's Ad Lib compatible Media Music

card is a decent buy.

- 3) We don't know about Top League.
- 4) A quick straw poll round the PC Review office resulted in a dead heat between Gods and Prince of Persia.
- 5) Dr Dos 6 is, to give you its full monicker, Digital Research Disk Operating System version 6; it's an alternative to Microsoft's MS-DOS which uses the same syntax (commands) and is compatible with it, but has some memory management and configuration features which can make it easier to use than MS-DOS.
- 6) There are no firm plans for Sensible Soccer to be released on the PC yet; other football games which are available are Kick Off 2 (a poor implementation on the PC); Manchester United (better, and now available for £11.99), and European Championship 1992 (see the review elsewhere in this issue).
- 7) Mario is due to appear in titles on the PC, courtesy of Mindscape, sometime next year, but these won't be conversions of existing Mario titles. No plans surrounding Sonic, as far as I know.

PC Review welcomes letters on any subject under the PC sun. The editor will chop them to fit the space if need be, and we'll assume letters are to be considered for publication unless you specifically state otherwise. Send all correspondence to Letters, PC Review, EMAP Images, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU. If you have access to CIX (Compulink Information Exchange) you can send your letters to our mailbox – our ID is pcreview. Star Letters win software prizes!

# ON THE SPOT

C Review arranges regular visits to the UK's top PC companies, taking with us a selection of readers who have filled in the form below. This gives you the chance to talk to various movers and shakers within the industry: interview them, ask them about their PC plans, how they design, write, produce their games, why PC games are so expensive (you might as well, everyone else asks that). The exact nature of the visit, and the degree of formality, depends on the companies concerned, but you usually get a chance to see some sneak previews of forthcoming products, meet the programmers, and have a guided tour of company HQ.

A full report of the visit then appears in a later PC Review – useful for those who didn't go, because they'll read the answers to the questions *you* asked. In other words, the issues which you, the readers, care about, rather than we think is important.

Next month, you'll be able to read about our trip to Microprose, the flight sim specialist (yes, really, this time!).

If you want to take part in an On the Spot visit, fill in the form below and send it to: On the Spot, PC Review, EMAP Images, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

Note: we don't take very many people at any one time, so that if selected, you'll have every chance to have your say. Because of this, the places get filled quickly, but we'll be doing return visits to all the most popular companies. If you miss out the first time round, sit tight, because another visit to the same place will come up and we don't throw your forms away.

NameAddress
Daytime tel no:
Evening tel no: (leave this blank if you prefer )
Age: Under 16 🗆 16-25 🗀 25-40 🗀 Over 40 🗀
NB if you are under 16, piease get your parent or guardian to sign this form as well giving their consent for you to take part.
Which company would you like to visit?
Domark ☐ Virgin ☐ Mindscape ☐ Bitmap Brothers ☐
Psygnosis  Other (if applicable)
Any particular reason for your preference(s)?
Send this completed form, or a photocopy, to On the Spot, PC Review, EMAP Images, 30-32

PC Review August 1992

Farringdon Lane, London EC1R 3AU.



Bemused, bothered or bewildered about the mysterious workings of your PC? Confused by hardware options? Stricken with software seize-ups? Share your problems with Q&A's Mike James and he'll endeavour to help.

## **Shades of grey**



Please could you recommend a not so expensive hand scanner or digitiser for a PC 286? It can be grey or colour.

Richard Wakefield Camberley Surrey

A really difficult question! The difficult part lies in your final sentence — "grey or colour".
Hand scanners come in three sorts — binary, grey and colour. Binary, 1-

sorts - binary, grey and colour. Binary, 1-bit or monochrome scanners only distinguish two tones - black or white. Strangely, binary scanners can be used to scan grey scale images but only by using a technique called 'dithering'. A dithered image sometimes looks good but it is almost impossible to edit - so keep away from binary scanners even though they are cheap. When it comes to colour hand scanners I can't say that I have found one that is sufficiently flexible or high enough quality to be usable. The reason is that they have all only managed 200 dots per inch (dpi) resolution and 300dpi or more is better. When it comes to grey level hand scanners you need an 8-bit 300dpi scanner. As long as the model comes up to this standard then the only thing that matters is price. However you might also be interested in what software the scanner is bundled with. If you need a scanner plus image editing package then you should look around for a good deal on the Logitech ScanMan 256 hand scanner which includes the excellent Ansel editing package. Otherwise buy the cheapest 8-bit 300dpi scanner you can find and a copy of ZSoft's PhotoFinish.

### Laptop graphics



I have just bought a Toshiba T1000 laptop computer, and as we all know, they only support CGA graphics. My questions are these:

I) Is there anyway to get the LCD screen to produce more than the CGA by adding a card or chip? 2) If not, is it possible to add a card or chip to get more than CGA by hooking it up to an external VGA or SVGA screen?

Andrew Drinkwater Lymm Cheshire



This is another one of those "in theory all things are possible" type answers. The T1000 does have an expansion port and the manual explains how Toshiba has built in the possibility of adding external hardware but as far as I know it hasn't done it yet and I doubt it ever will. The T1000 is now a low-cost portable because it only supports CGA, so adding such specialised extras would probably not be cost-effective. In addition, the TX1000 is based on a fairly slow 8086 processor. While this is plenty fast enough for CGA resolution, and for most uses that a portable is put to, running VGA/SVGA and associated applications would almost certainly reveal its weaknesses. The T1000 is an excellent portable at a good price, but don't try to push it beyond its limits.

# Perfect programming



I have been a keen programmer for a number of years now, but I have only used the BBC's at school and BBC Basic.

I have a Quickbasic, BBC Basic and GWBasic on my PC (a 386SX with EGA Monitor) but I would like to learn to program in machine code on the PC. Is there such a thing and, if so, is this what games programmers use to produce games like Gods or Eye Of The Beholder?

Please could you direct me to a book or program that will allow me to program properly on my PC?

P Gardener Falmouth Cornwall

Learning to program in assembler, ie, machine code, is a difficult task. There are similarities between all programming

languages — they all have loops and IF statements — but the number of assembly languages instructions needed to achieve even a simple action is huge. Assembly language has only one advantage — it's very fast. Most programs that need speed, such as games, compromise by using a medium level language, usually C, to write the bulk of the program and then just assembly language for the sections that need the extra speed. There are a large number of books on 80x86 assembly language but you not only need to master this but a great many other aspects of how the PC, its graphics and sound, work.

In other words, you need to know not only the language but something of how the machine is constructed. This all adds up to a long apprenticeship. So, where do you start? My advice would be to get hold of a good C compiler — Borland's Turbo C or Microsoft's

Oulck C are both good choices but there are other lower cost options — and a book on C. As you learn to program in C you will also begin to understand some of the important features of the machine and its graphics.

#### **Mystery PC**



I have recently bought a PC, and there are some things that I am not quite sure about;

a) My PC has got "M290" on the front of it. What speed is this, and is this fast?

b) Do all games have to be installed on my hard drive?

Andrew Curran Heston Middlesex



The M290 is a just a maker's model number for the machine and you cannot deduce anything from it unless you consult the

maker's specification for model M290.

No, not all games have to be installed on a

# Where does CD sound come from?



Please help me! I am a confused man thinking about purchasing a Sony CD-ROM laser centre. I have been reading a number of articles in a number of differ-

ent magazines. I have a few questions which I would be most grateful if you could answer. Well, perhaps "a few questions" is an understatement.

I) If I connected a CD-ROM to my IBM PS/2 would I be able to connect it to my stereo system using the audio output connections at the back of the CD-ROM?

2) If I did this could I produce the high sound quality this way, bypassing a sound card?

3) What is the headphone socket for? Do I plug my headphones in here and then hear the high sound quality?

4) The Sony CD-ROM is able to play audio CDs. Where does the sound come out of? Is this what the audio sockets are for?

5) Wing Commander has been released on CD Does this speed up the play or slow it down? My version on my 16MHz is very slow. Would the digitised speech then come out of my hi-fi using the audio sockets or do I still need a sound card? Will a pair of headphones do the trick?

6) What is the main advantage of a CD?

7) Is it worth buying one, or better to wait to see if the prices fall?

8) Nothing to do with CDs: how do I speed up my machine? Is it possible to replace the mother-board by so I can make it faster by inserting a 486DX?

Richard Powell Bridgwater Somerset



The first thing to say is that a CD-ROM is not a replacement for a sound card. program that needs a sound card to produce its sound effects needs a

sound card no matter where it is loaded from hard disk or CD-ROM. However, some programs hard drive but they load faster, and might even run faster, from a hard disk copy. Hard disks make using a program a more convenient, but if a game is small enough to occupy only a single floppy, le, you don't have to swap floppies while running it, then it might be worth saving the hard disk space. However, an increasing number of games do have to be installed to a hard disk before you can run them.

# Processors in a twist



Wanting to buy a new computer I have a slight problem choosing between a 386-40 Mhz and a 486-20 Mhz. In Issue 6 you explained

that a 486SX is a 486DX without its math co-processor which actually makes it a 386DX. What's the difference? Is the 486SX fully downward compatible? Which one is the faster? Are there any differences in what they are good at? Is the 386, for example, better at handling graphics and the 486SX better at calculations? Which would you rec-

hat are supplied on CD-ROM do include digital audio that can be heard via the headphone sockets or played over a hi-fi connected to the audio outputs without a sound card. For example, if you not the multi-media version of Beethoven's 5th you actually hear the music over headphones or on a suitably connected hi-fi and you don't need a sound card. You can even hear digitised speech without a sound card but any program that actually needs a sound card will still need one.

You can play audio CDs on a CD-ROM but only if you have suitable software to do the job (as with the Sony unit). The sound comes out of the headphone socket or via the hi-fi connection. As the tracking abilities of a CD-ROM drive are better than a standard audio CD drive you may find that you can play damaged CDs with more success on a CD-ROM drive.

A CD-ROM certainly will not speed any existing software up and its advantages are nothing to do with speed!

So should you buy one now or wait? The answer really depends on whether there is any CD software that you want to run now rather than later. If you like to listen to music while working at your machine then an internally mounting drive can be as cost effective as an audio CD unit and marginally better if you shop around. Get hold of a copy of Optech CD-ROM News (phone 0252 714340) to see if there are any CD-ROMs that would be useful to you. Will the price fall? Almost certainly, but how quickly and by how much are much more tricky questions. At the moment the price is reasonable but quite a way from rock bottom.

I'm afraid that with the PS/2 the best thing you can do is to get rid of it and buy another PC. I'm sorry to sound so cavalier, but IBM's PS-designated machines are not at all easy to upgrade paradoxically, although they are IBM's own machines, they are not as 'standard' as most third party PC-compatibles). You may be able to wangle a DIY upgrade; it would in all probability be more expensive than replacing the machine. However, at 16MHz, your PS/2 isn't quite a snail, is it?

ommend, considering that I primarily use the computer for word processing, Excel and, of course, games.

Morton Koldes Aalborg Denmark



A 486SX-20Mhz is functionally the same as a 386DX but with the difference that it is faster. The 486 is a re-design of the 386 so

that it runs the most common instructions in half the time. There are slight differences between the 386 and the 486 but in all practical senses they can be considered identical — I don't know of a program that will run on the 486 and not on the 386 or vice versa and I don't think anyone will ever want or need to produce one. So the only reason for preferring a 486 is speed and a 20Mhz 486 is roughly the same processing power as a 40Mhz 386. You should therefore choose between the 20Mhz 486 and the 40MHz 386 one the basis of price or any other extras included in the system as they are roughly equivalent in processing power.

## **Keeping memory**



I have a 20Mhz 386SX based system with IMb expanded memory via the DOS 5 Memory Manager EMM386. I'm considering upgrading to a go-

faster 486DX board, but I am not clear whether there will still be access to expanded memory, ie, does EMM386 work with a 486?

GP Ellard Leigh-on-Sea Essex



Yes, you will still be able to use expanded memory. There is no difference between a 386DX and a 486 other than speed.

#### Twin joysticks



Please could you tell me how to connect two joysticks up to my PC. I have a 100% compatible PC, with a Multi I/O card which has one joy-

stick port. The instruction manual tells you it is possible to connect two joysticks with this card, but does not tell you how. Both joysticks have 15-pin plugs.

Michael Marshall Herne Bay Kent



For once I can provide a simple answer. The standard 15-pin joystick socket supports connections from two full X, Y

positioning analog joysticks — Joystick A and Joystick B. In most cases when two joysticks are used they are already combined into a single unit, such as a flight yoke, and the 15-pin plug is wired correctly. If you have two separated joysticks then the problem is that they are both wired to separate 15-pin plugs as joystick A. The solution is to buy a Y adapter which is available from most computer dealers. This splits the single 15-

pin socket into two 15-pin sockets suitable for connecting a pair of standard joysticks one as A and one as B.

## Variable speeds



I own a Phillips PCD300 series 386 with 5Mb RAM. It's documented to be I6Mhz but I have a number of programs to measure the speed of

the processor. One program measures the speed as 19.4MHz. Another says that it is 1.63mips and PCTools reads it as 730% faster than the original AT. What is the actual speed of my processor?

I found after playing F29 my processor speed increased to 20.1 Mhz, 1.75mips and 750% increase from an AT. How does it do this?

Also I was wondering if it would be possible to make a program reproduce this effect? My dad thought I was mad loading F29 every time I turned the computer on, but I found it a great help when playing Space Quest IV and Monkey Island 2 to make them just a little bit faster.

Stewart Badger Escrick York



The clock speed of your machine is 16Mhz, no matter what you might think that the testing programs are telling you. The point is that the

actual speed of a machine depends mainly, but not exclusively, on the clock speed. There are a range of other smaller factors that affect how fast a program runs — how the memory is configured, the speed of the video card, etc.

What the testing programs are measuring is how fast the clock speed of a standard AT, a known design, would have to be increased to run programs at the same speed as your machine. This takes into account these other factors and so you can discover that you end up with a clock speed rating higher or lower than your machine's actual clock speed. In this case the 19.4MHz is an estimate of how fast an original IBM AT would have to run to match your machine — not an estimate of your machine's clock speed.

Now what about the change in estimated performance after F29? Programs can and do alter the setup of a machine to get the last Hz of performance and F29 does this. However the change from 19.4 to 20.1 represents a 0.036% speed increase and I am very surprised if you actually notice this tiny effect!

Don't forget if you have any answers or ideas to help other PC Review readers, drop us a line and we will publish them. Send your letters to Q&A, PC Review, Priory Court, 30-32 Farringdon Lane, London ECIR 3AU. If you have access to CIX, the Compulink Information Exchange, you can send your query to us there – our ID is pcreview.

Football crazy

atching the two week long Sega advertisement — sorry, I mean ITV's coverage of the European Championships — one couldn't help but be struck by the affinity that computer firms and football enjoy. Commodore has long been a supporter, with its name emblazoned on Chelsea's shirts, and also those of Dynamo Kiev for a while, while Crystal Palace, of course, went from being Virgins one season (all right, the airline, not the games publisher) to Tulips the next.

# Who said that?

rom there it seems but a short step to adopting one of the football fanzine's staple favourites: Things They Never Said. Such as:

"Of course, the game of the film never quite catches the feel of the original movie" – Ocean Software

"Kick Off 3 will retain all the playability and high quality graphics of its predecessor on the PC" – Anco

"Our new PC has been designed to be absolutely standard — you'll be able to upgrade any part of it with any other PC-compatible components" – Amstrad

"It's important that Ultima VIII should run from floppy disks on a 8086" – Richard Garriott

Any more, anyone?

# Hello, and welcome

There were 25,000-odd visitors to the Spring Computer Shopper show and it felt as though most of them visited the PC Review stand at some point during the four days. To everyone who came by to praise, criticise, or just for a chat — it was good to meet you and hear your views.

# **Behind Holobyte**

he long-running saga of Robert Maxwell and his missing millions throws up new implications by the day, leaving virtually no field of business unscathed. The PC software market certainly isn't immune, particularly since the national press has of late pounced on the fact that the Liechtenstein-incorporated Maxwell Charitable Foundation owns 80% of "Californian games company" Sphere Inc, which is still trading.

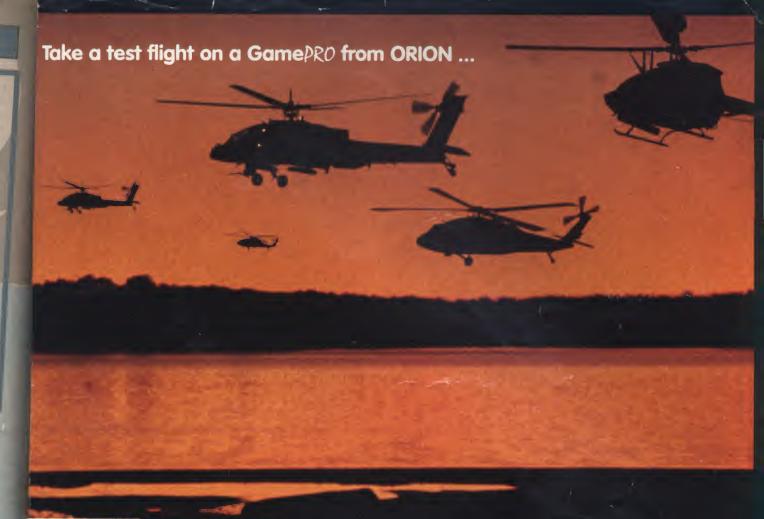


Those who claim some passing acquaintance with computer games may be curious to know just what titles Sphere Inc has released — it's hardly a household name. Perhaps the name Falcon 3.0 will jog a few memories. Yep, Spectrum Holobyte is a publishing label and trademark of Sphere Inc, and became so in 1987, when Robert Maxwell created Sphere from two existing companies, Holobyte and Nexa.

What's in a name (part 2)

ast month Quit mused fairly pointlessly about some of the more appropriate and not so appropriate I names used in computer games for its heroes and villains. Further aimless pondering in the light of recent releases produced the following inexplicable monickers. As the man constantly exhorted to beam people up, Montgomery Scott is an essential presence in Star Trek what's he doing in Epic (see this month's review)? And in Eternam, that oh-so-chic French romp (see page 58), your mentor, muse and mystic siren is called, of all things, Tracy. But the Quit favourite dates back a few months now: in the same incongruous league as King Graham of Daventry, French developer Delphine decided that the piratical One-Eved Jack (shades of Twin Peaks inspiration here) in Cruise for a Corpse just wasn't piratical enough for German and Italian players, and thus he became the much more menacing One Eyed Gary. What are the French on?







GS - 2000



F 117A



SILENT SERVICE II



15 II - DESERT STORM

# "...for many recent releases a 386 PC is a minimum requirement." $^{PC\ Format\ '92}$

It is a simple fact of computing that the more information you try to process the slower everything becomes. Not much fun when the subject is Gunship 2000 in glorious 256 colour graphics. Try playing the latest generation simulations on a 286 for example. The graphics are very 'jerky' and the response is fustralingly slow. The effect is unconvincing and not worthy of simulator status.

Realism is what it's all about. We use high power 386 and 486 processors, very fast clock rates, high speed videa cards and quick hard drives. Coupled with todays latest software you'll experience a totally new dimension in P.C. leisure.

#### GamePRO/MASTER SPECIFICATION

1Mb System RAM (Expandable to 16/32/64Mb) 3.5-inch 1.44Mb Floppy Disk Drive 80Mb formatted capacity Hard Disk (45Mb physical media) 14" SVGA Monitor, 1024x768, 0.28mm d.p. 256Kb SVGA Display Card Slimline / Desktop / Mini-Tower Case & 102-Key Keyboard Megasound 100% Ad-Lib comp. Soundcard 5Watt (2.5+2.5W) Stereo Speakers with Internal Amplifier Stereo lin-earth beadthones Stereo lin-earl headphones
Analogue Joystick
3-button Microsoft compatible Mouse
Digital Research DOS v.6
LIFETIME Warranty

ANY MICROPROSE GAMES, INCLUDING CONFIGURATION,

Orion

GamePRO-SX GamePRO-DX GameMASTER

Upgrade to 4Mb Ram

Upgrade to 105Mb Drive\*

386SX-25MHz 386DX-40MHz 486DX-33MHz

£869-00 £999-00 £1249-00

ALL PRICES EXCLUSIVE OF DELIVERY (AT COST) & VAT

Fordbrook Business Centre Mariborough Road Pewsey, Witshire. SN9 5NU

Facsimile (0672) 62419



PTIONS	A CPRICE	£ADD
oravis Analog Joystick Gravis Optical Mousestick hrust Master Control System Zy-Fi" Stereo Speakers with Internal Amp. oundblaster v.2 oundblaster PRO (+MIDI Interface) Megasound (100%)Ad-Lib comp. Soundseng-Labs ET4000 1Mb SVGA Card	35-00 75-00 69-00 35-00 110-00 179,00 d 49-00	17-00 57-00 69-00 30-00 60-00 130-00
pgrade to 2Mb Ram*	The same	40-00

... it's like flying the real thing!



